

Datasheet for ABIN3021922

## anti-Osteopontin antibody (AA 17-314)



[Go to Product page](#)

2 Images

1 Publication

### Overview

|                      |                                            |
|----------------------|--------------------------------------------|
| Quantity:            | 100 µL                                     |
| Target:              | Osteopontin (SPP1)                         |
| Binding Specificity: | AA 17-314                                  |
| Reactivity:          | Human                                      |
| Host:                | Rabbit                                     |
| Clonality:           | Polyclonal                                 |
| Conjugate:           | This Osteopontin antibody is un-conjugated |
| Application:         | Western Blotting (WB)                      |

### Product Details

|                   |                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:        | Recombinant fusion protein containing a sequence corresponding to amino acids 17-314 of human Osteopontin (NP_001035147.1).                                                                                                                                                                                                                      |
| Sequence:         | IPVKQADSGS SEEKQLYNKY PDAVATWLNP DPSQKQNLLA PQNAVSSEET NDFKQETLPS<br>KSNEHDHMD DMDDEDDDDH VDSQDSIDSN DSDDVDDTDD SHQSDSHHS DESDELVTDF<br>PTDLPATEVF TPVVPTVDY DGRGDSVYVG LRSKSKKFRR PDIQYPDATD EDITSHMESE<br>ELNGAYKAIP VAQDLNAPSD WDSRGKDSYE TSQLEDDQSAE THSHKQSRLY KRKANDESNE<br>HSDVIDSQEL SKVSREFHSH EFHSHEDMLV VDPKSKEEDK HLKFRISHL DSASSEVN |
| Isotype:          | IgG                                                                                                                                                                                                                                                                                                                                              |
| Cross-Reactivity: | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                |
| Characteristics:  | Polyclonal Antibodies                                                                                                                                                                                                                                                                                                                            |

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | Osteopontin (SPP1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Alternative Name: | SPP1 ( <a href="#">SPP1 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Background:       | <p>The protein encoded by this gene is involved in the attachment of osteoclasts to the mineralized bone matrix. The encoded protein is secreted and binds hydroxyapatite with high affinity. The osteoclast vitronectin receptor is found in the cell membrane and may be involved in the binding to this protein. This protein is also a cytokine that upregulates expression of interferon-gamma and interleukin-12. Several transcript variants encoding different isoforms have been found for this gene.,BNSP,BSPI,ETA-1,OPN,Osteopontin,SPP1,Cancer,Tumor biomarkers,Signal Transduction,Cell Biology &amp; Developmental Biology,Apoptosis,Cytoskeleton,Extracellular Matrix,Bone,Growth factor,Immunology &amp; Inflammation,Cytokines,Stem Cells,Mesenchymal Stem Cells,Cardiovascular,Angiogenesis,SPP1</p> |
| Molecular Weight: | 32 kDa/33 kDa/35 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene ID:          | 6696                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| UniProt:          | <a href="#">P10451</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Pathways:         | <a href="#">Regulation of Cell Size</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

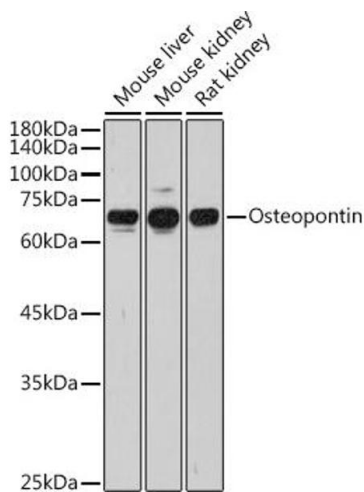
## Application Details

|                    |                       |
|--------------------|-----------------------|
| Application Notes: | WB,1:500 - 1:2000     |
| Restrictions:      | For Research Use only |

## Handling

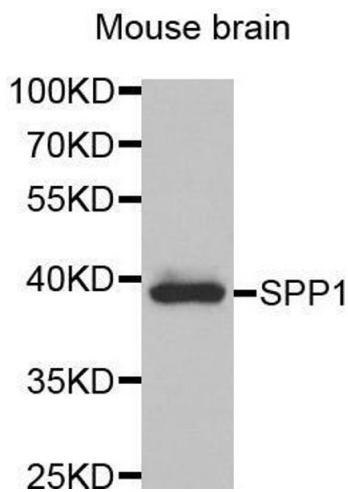
|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                 |
| Buffer:            | PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.                                                                    |
| Preservative:      | Sodium azide                                                                                                           |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice:   | Avoid freeze / thaw cycles                                                                                             |
| Storage:           | -20 °C                                                                                                                 |
| Storage Comment:   | Store at -20°C. Avoid freeze / thaw cycles.                                                                            |

Product cited in: Chang, Lin, Fu, Wang, Han, Fan: "MicroRNA-195-5p Regulates Osteogenic Differentiation of Periodontal Ligament Cells Under Mechanical Loading." in: **Journal of cellular physiology**, Vol. 232, Issue 12, pp. 3762-3774, (2017) ([PubMed](#)).



Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using Osteopontin antibody (ABIN3021921, ABIN3021922, ABIN3021923 and ABIN6217674) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60s.



Western Blotting

**Image 2.**