

Datasheet for ABIN723800

anti-Osteopontin antibody (AA 221-280)

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Overview

Quantity:	100 µL
Target:	Osteopontin (SPP1)
Binding Specificity:	AA 221-280
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Osteopontin antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from mouse OPN
Isotype:	IgG
Cross-Reactivity:	Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	Osteopontin (SPP1)
Alternative Name:	Osteopontin (SPP1 Products)

Target Details

Background:	Synonyms: OP, 2AR, Bsp, Eta, Opn, Ric, BNSP, BSPI, Opnl, Apl-1, ETA-1, Spp-1, Osteopontin, Bone sialoprotein 1, Calcium oxalate crystal growth inhibitor protein, Early T-lymphocyte activation 1 protein, Minopontin, Secreted phosphoprotein 1, Spp1 Background: Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction. Acts as a cytokine involved in enhancing production of interferon-gamma and interleukin-12 and reducing production of interleukin-1 and is essential in the pathway that leads to type I immunity.
Gene ID:	20750
UniProt:	P10923
Pathways:	Regulation of Cell Size

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

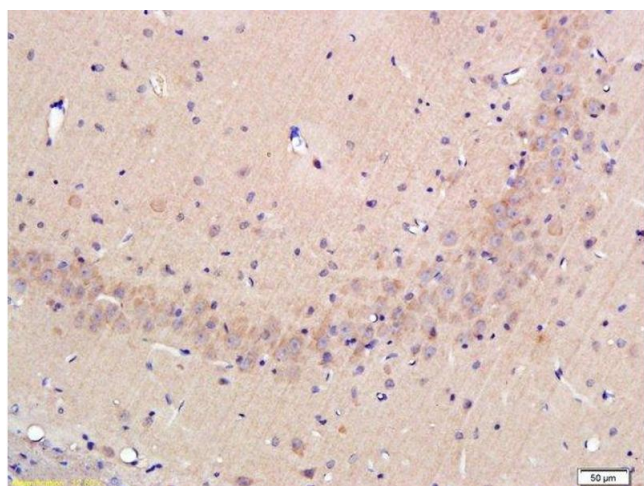
Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

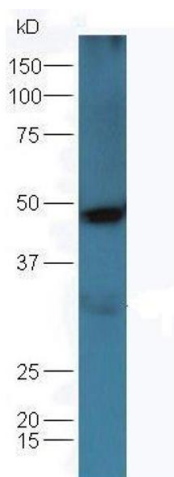
- Product cited in: Zhang, Men, Fu, Shan, Ye, Wu, Tao, Liu, Jiang: "Contribution of SATB2 to the stronger osteogenic potential of bone marrow stromal cells from craniofacial bones." in: **Cell and tissue research**, Vol. 350, Issue 3, pp. 425-37, (2013) ([PubMed](#)).
- Wang, Jiang, Peng, Guo, Shang, Chen, Wu, Chen: "Induced apoptosis of osteoblasts proliferating on polyhydroxyalkanoates." in: **Biomaterials**, Vol. 34, Issue 15, pp. 3737-46, (2013) ([PubMed](#)).
- Gao, Zhao, Song, Yang: "Expression pattern of embryonic stem cell markers in DFAT cells and ADSCs." in: **Molecular biology reports**, Vol. 39, Issue 5, pp. 5791-804, (2012) ([PubMed](#)).

Images



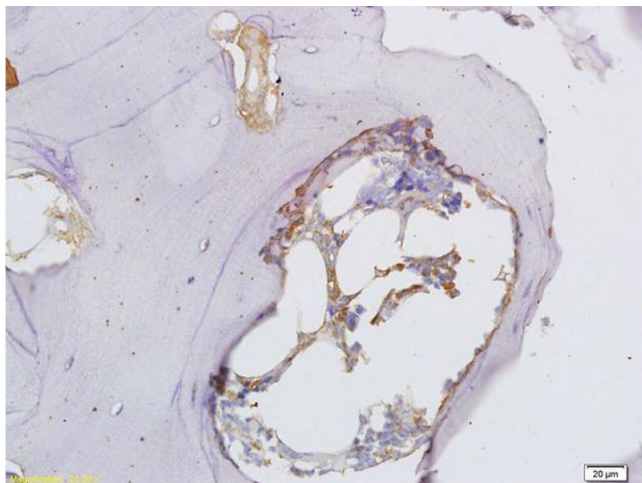
Immunohistochemistry

Image 1. Formalin-fixed and paraffin-embedded rat hippocampus labeled with Rabbit Anti-OPN Polyclonal Antibody, Unconjugated (ABIN723800) at 1:300 followed by conjugation to the secondary antibody



Western Blotting

Image 2. Mouse kidney lysates probed with at 1:5000 90min in 37°C.



Immunohistochemistry

Image 3. Formalin-fixed and paraffin embedded rat shin bone labeled with Anti-Osteopontin Polyclonal Antibody, Unconjugated (ABIN723800) at 1:300 followed by conjugation to the secondary antibody and DAB staining