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Datasheet for ABIN5651081 anti-ROR2 antibody (AA 100-200) (APC)





Overview

| Quantity: | 100 µg |
|----------------------|---|
| Target: | ROR2 |
| Binding Specificity: | AA 100-200 |
| Reactivity: | Human, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This ROR2 antibody is conjugated to APC |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC) |

Product Details

| Immunogen: | Synthetic peptide of Human ROR2 (100-200 aa), conjugated to Keyhole Limpet Haemocyanin (KLH). |
|---------------|--|
| Specificity: | Detects 104.7 kDa. Bands at \sim 60, 35 kDa are possible degradation products. |
| Purification: | Peptide Affinity Purified |

Target Details

| Target: | ROR2 |
|-------------------|--|
| Alternative Name: | ROR2 (ROR2 Products) |
| Background: | ROR2 is a receptor tyrosine kinase which may have a role in early cartilage and growth plate development. ROR2 expression is generally highest during embryonic development and will |
| | gradually decrease as cells terminally differentiate. Wnt5a has been identified to utilize ROR2 as |

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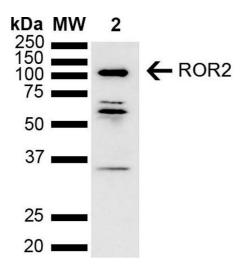
Target Details

| | a co-receptor for non-canonical Wnt signalling. Aberrant expression of ROR2 has been |
|----------|--|
| | implicated in gastric, osteosarcoma, mestatic melanoma, prostate, renal cell and squamous |
| | cell carcinomas. Increased expression of ROR2 was correlated with increased metastasis. In |
| | prostate, osteosarcomas and metastatic melanomas, Wnt5a/ROR2 receptor complex |
| | formation was implicated as the mechanism for cancer progression. ROR2 seems to function |
| | as an oncogene. Primarily mis-sense mutations of ROR2 have been identified in tumours but |
| | their functional effect has not been well characterized. |
| Gene ID: | 4920 |

| Gene ib. | 7720 |
|-----------------|------------------------------|
| NCBI Accession: | NP_001305133 |
| UniProt: | Q01974 |
| Pathways: | RTK Signaling, WNT Signaling |

Application Details

| Application Notes: | • WB (1:1000) |
|--------------------|---|
| | • IHC (1:50) |
| | optimal dilutions for assays should be determined by the user. |
| Comment: | A 1:1000 dilution of ABIN5651081 was sufficient for detection of ROR2 in 10 μg of human HeLa |
| | cell lysates by ECL immunoblot analysis using goat anti-rabbit IgG:HRP as the secondary |
| | antibody. |
| | ambouy. |
| Restrictions: | For Research Use only |
| | |
| Handling | |
| Handling | |
| Format: | Liquid |
| Concentration: | 1 mg/mL |
| | |
| Buffer: | PBS pH 7.4, 50 % glycerol, 0.09 % Sodium Azide |
| Preservative: | Sodium azide |
| | |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which |
| | should be handled by trained staff only. |
| | |
| Storage: | -20 °C |



Western Blotting

Image 1. Western blot analysis of Human Cervical cancer cell line (HeLa) lysate showing detection of ~104.7 kDa ROR2 protein using Rabbit Anti-ROR2 Polyclonal Antibody (ABIN5651081). Lane 1: Molecular Weight Ladder (MW). Lane 2: Cervical Cancer cell line (HeLa) lysate. Load: 10 µg. Block: 5 % Skim Milk in 1X TBST. Primary Antibody: Rabbit Anti-ROR2 Polyclonal Antibody (ABIN5651081) at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Rabbit HRP:IgG at 1:4000 for 1 hour at RT. Color Development: ECL solution for 5 min at RT. Predicted/Observed Size: ~104.7 kDa. Other Band(s): ~60, 35 kDa degradation products.

Immunohistochemistry

Image 2. Immunohistochemistry analysis using Rabbit Anti-ROR Polyclonal Antibody (ABIN5651081). Tissue: Prostate. Species: Human. Fixation: Formalin Fixed Paraffin-Embedded. Primary Antibody: Rabbit Anti-ROR Polyclonal Antibody (ABIN5651081) at 1:50 for 30 min at RT. Counterstain: Hematoxylin. Magnification: 20X.

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