

# Anti-ROR2 Antibody [JE37-72]

HA721417



|                            |                                                       |
|----------------------------|-------------------------------------------------------|
| <b>Product Type:</b>       | Recombinant Rabbit monoclonal IgG, primary antibodies |
| <b>Species reactivity:</b> | Human                                                 |
| <b>Applications:</b>       | WB, IHC-P                                             |
| <b>Molecular Wt:</b>       | Predicted band size: 105 kDa                          |
| <b>Clone number:</b>       | JE37-72                                               |

**Description:** Tyrosine-protein kinase transmembrane receptor ROR2, also known as neurotrophic tyrosine kinase, receptor-related 2, is a protein that in humans is encoded by the ROR2 gene located on position 9 of the long arm of chromosome 9. This protein is responsible for aspects of bone and cartilage growth. It is involved in Robinow syndrome and autosomal dominant brachydactyly type B. ROR2 is a member of the receptor tyrosine kinase-like orphan receptor (ROR) family. The protein encoded by this gene is a receptor tyrosine kinase and type I transmembrane protein that belongs to the ROR subfamily of cell surface receptors. The protein may be involved in the early formation of the chondrocytes and may be required for cartilage and growth plate development.

**Immunogen:** Synthetic peptide within Human ROR2 aa 34-83 / 943.

**Positive control:** K-562 cell lysate, U-2 OS cell lysate, HEK-293 cell lysate, Jurkat cell lysate, human placenta tissue.

**Subcellular location:** Cell membrane.

**Database links:** SwissProt: Q01974 Human

**Recommended Dilutions:**

|              |         |
|--------------|---------|
| <b>WB</b>    | 1:1,000 |
| <b>IHC-P</b> | 1:1,000 |

**Storage Buffer:** 1\*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

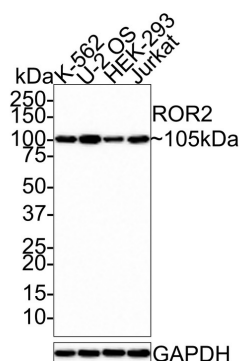
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

## Images

**Fig1:** Western blot analysis of ROR2 on different lysates with Rabbit anti-ROR2 antibody (HA721417) at 1/1,000 dilution.

Lane 1: K-562 cell lysate  
Lane 2: U-2 OS cell lysate  
Lane 3: HEK-293 cell lysate  
Lane 4: Jurkat cell lysate



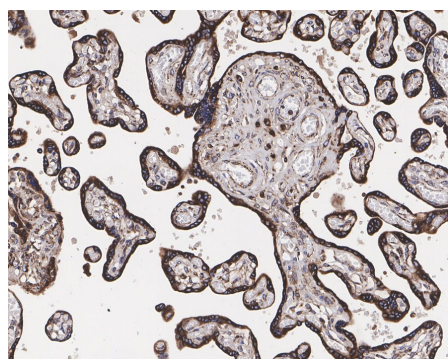
Lysates/proteins at 10 µg/Lane.

Predicted band size: 105 kDa  
Observed band size: 105 kDa

Exposure time: 2 minutes;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721417) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.



**Fig2:** Immunohistochemical analysis of paraffin-embedded human placenta tissue with Rabbit anti-ROR2 antibody (HA721417) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA721417) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. Thorup AS et al. ROR2 blockade as a therapy for osteoarthritis. Sci Transl Med. 2020 Sep
2. Liu D et al. ROR1 and ROR2 expression in pancreatic cancer. BMC Cancer. 2021 Nov

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