

Anti-Mesothelin Antibody

ER1803-76



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell, IHC-P
Molecular Wt:	Predicted band size: 69 kDa

Description: This gene encodes a preproprotein that is proteolytically processed to generate two protein products, megakaryocyte potentiating factor and mesothelin. Mesothelin is a glycosylphosphatidylinositol-anchored cell-surface protein that may function as a cell adhesion protein. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. Mesothelin is over expressed in several human tumors, including mesothelioma, ovarian cancer, pancreatic adenocarcinoma and cholangiocarcinoma. The interaction between mesothelin and MUC16 (also known as CA125) may facilitate the implantation and peritoneal spread of tumors by cell adhesion. Dr. Mitchell Ho and colleagues at the National Cancer Institute identified the region (residues 296-359) consisting of 64 amino acids at the N-terminus of cell surface mesothelin as the functional binding domain for MUC16.

Immunogen: Recombinant protein within Human Mesothelin aa 220-410.

Positive control: Human tonsil tissue, human lung cancer tissue, SiHa.

Subcellular location: Cell membrane, Golgi apparatus, Membrane, Secreted.

Database links: SwissProt: Q13421 Human

Recommended Dilutions:

WB	1:500-1:2,000
IF-Cell	1:50
IHC-P	1:50-1:200

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

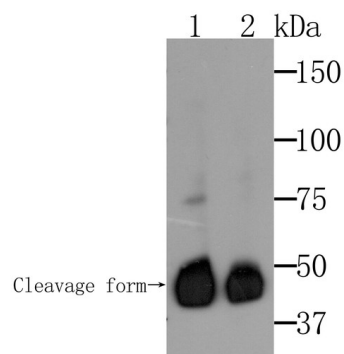


Fig1: Western blot analysis of Mesothelin on SiHa lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody was used at different dilution in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:5,000 dilution was used for 1 hour at room temperature.

Positive control:

Lane 1: 1:500 dilution antibody

Lane 2: 1:2000 dilution antibody

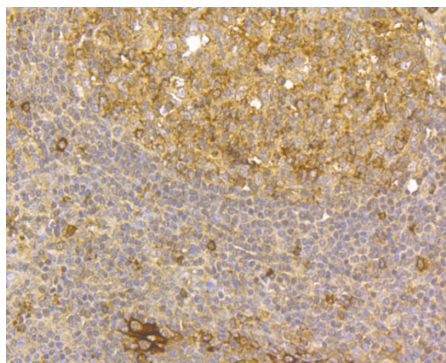


Fig2: Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Mesothelin antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the antibody (ER1803-76) at 1/100 dilution, for 30 minutes at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. Counter stained with hematoxylin and mounted with DPX.

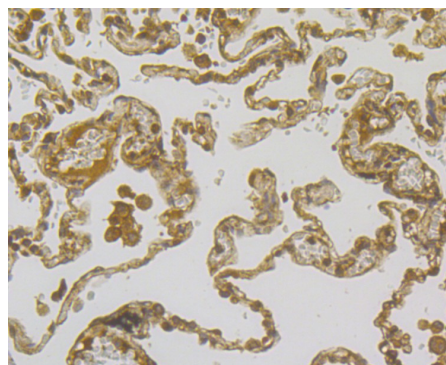


Fig3: Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-Mesothelin antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the antibody (ER1803-76) at 1/100 dilution, for 30 minutes at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. Counter stained 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. Ho M et al. Humoral immune response to mesothelin in mesothelioma and ovarian cancer patients. Clin Cancer Res 11:3814-3820 (2005).
2. Kojima T et al. Molecular cloning and expression of megakaryocyte potentiating factor cDNA. J Biol Chem 270:21984-21990 (1995).

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