

Anti-Human Mesothelin Antibody [PSH02-30] - BSA and Azide free (Capture)

HA723287



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Cap)
Clone number:	PSH02-30

Description: This gene encodes a preproprotein that is proteolytically processed to generate two protein products, megakaryocyte potentiating factor and mesothelin. Megakaryocyte potentiating factor functions as a cytokine that can stimulate colony formation of bone marrow megakaryocytes. Mesothelin is a glycosylphosphatidylinositol-anchored cell-surface protein that may function as a cell adhesion protein. This protein is overexpressed in epithelial mesotheliomas, ovarian cancers and in specific squamous cell carcinomas. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed.

Immunogen: Recombinant protein within human Mesothelin aa 273-622 / 622 (Q13421-3).

Positive control: Recombinant Human Mesothelin protein (HA210521).

Subcellular location: Cell membrane, Golgi apparatus; Secreted.

Database links: SwissProt: Q13421 Human

Recommended Dilutions:

ELISA(Cap) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH0-57] to Human Mesothelin antibody (Detector) (HA723288) and Recombinant Human Mesothelin protein (HA210521) as the standard. The reference range value is 156.3-20,000 pg/ml.

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Images

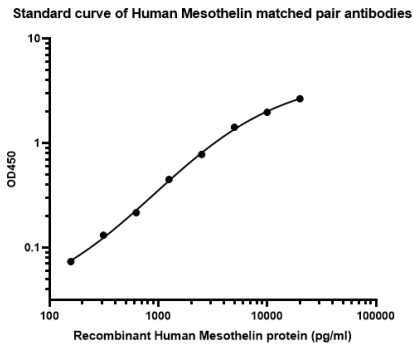


Fig1: Sandwich ELISA analysis of Human Mesothelin matched pair antibodies

Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA723287) diluted in carbonate/bicarbonate buffer, at a concentration of 5 μ g/ml overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 150 μ l 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Human Mesothelin protein (HA210521) starting from 20000 pg/ml to 0 pg/ml and detect antibody (HA723288, Biotin, 0.2 μ g/ml) for 1 hour at 30 $^{\circ}$ C with shaking. Then the plate was washed and incubated with 100 μ l per well of SA-HRP for 0.5 hour at 30 $^{\circ}$ C with shaking. Detection was performed using an Ultra TMB Substrate for 10 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

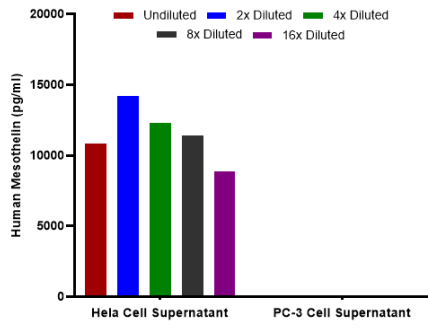


Fig2: Interpolated concentrations of native Mesothelin in human cell culture supernatant samples.

Interpolated concentration of native Mesothelin was measured in duplicate at different sample concentrations and interpolated from the Mesothelin standard curves. Undiluted samples were 100% cell supernatant. The mean Mesothelin concentration was determined to be 11,523 pg/mL in neat HeLa cell supernatant. There was no detectable signal in PC-3 cell supernatant.

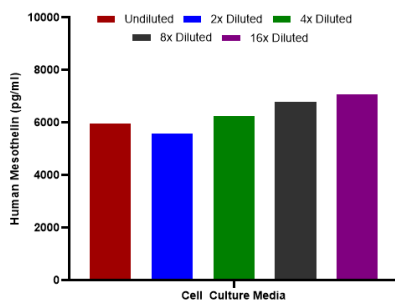


Fig3: Interpolated concentrations of spiked Mesothelin in cell culture media samples.

The concentrations of Mesothelin were measured in duplicates, interpolated from the Mesothelin standard curves and corrected for sample dilution. Undiluted samples are as follows: cell culture media 50%.

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

Background References

1. Klampatsa A et al. Mesothelin-targeted CAR-T cell therapy for solid tumors. Expert Opin Biol Ther. 2021 Apr
2. Schoutrop E et al. Mesothelin-Specific CAR T Cells Target Ovarian Cancer. Cancer Res. 2021 Jun

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