Human Mesothelin Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3265

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Mesothelin in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Mesothelin isoform 2 Glu296-Gly580 Accession # ABW03459
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

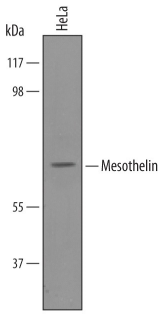
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human Mesothelin by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Human Mesothelin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3265) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for Mesothelin at approximately 69 kDa (as indicated). This experiment was conducted under reducing conditions and Immunoblot Buffer Group 8.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Mesothelin is a 40 kDa, 292 amino acid (aa) GPI-linked glycoprotein found on normal mesothelial cells. It is also highly expressed in pancreatic, gastric and ovarian carcinomas. Mesothelin is synthesized as a preproprotein with a carboxy-terminal hydrophobic proregion that is removed when a GPI-anchor is added. The N-terminal prosegment is cleaved by furin to release a 33 kDa soluble protein that is also known as megakaryocyte potentiating factor (MPF). The membrane bound portion of Mesothelin can also be shed and is detectable in sera. Within the region used as the immunogen, human Mesothelin shares approximately 58% amino acid sequence identity with the mouse or rat protein.

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