

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Mesothelin Propeptide/MPF in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with mature recombinant human Mesothelin is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Mesothelin Propeptide/MPF isoform 1 Arg35-Leu289 Accession # Q13421
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 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	0.1 µg/mL	Recombinant Human Mesothelin Propeptide/MPF

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. <ul style="list-style-type: none"> ● 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, 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 pro-region that is removed when a GPI-anchor is added. The amino-terminal propeptide is cleaved by furin to release a 33 kDa soluble protein that is also known as megakaryocyte potentiating factor (MPF). Mouse MPF has been shown to potentiate megakaryocyte colony forming activity of IL-3 in mouse bone marrow culture. The amino acid sequence of human MPF is 55% identical to that of mouse or rat MPF.