

## Product datasheet for **TA399854**

### MSLN Rabbit Monoclonal Antibody [Clone ID: MB]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	MB
Applications:	ELISA, FC, IHC, WB
Reactivity:	Human
Modifications:	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2a format for improved compatibility with existing reagents assays and techniques.
Host:	Rabbit
Isotype:	IgG, kappa
Clonality:	Monoclonal
Immunogen:	The original antibody was generated in mesothelin-deficient mice by immunization with plasmid cDNA corresponding to the mesothelin extracellular domain followed by a single boost with a recombinant human mesothelin-rabbit IgG Fc fusion protein.
Specificity:	This antibody can recognize and bind human mesothelin. This antibody binds a different antibody on the human mesothelin than another antibody called MN-1. Mesothelin (MSLN) is a glycosylphosphatidylinositol (GPI)-linked cell surface protein highly expressed in several types of malignant tumors sometimes in association with increased tumor aggressiveness and poor clinical outcome. The membrane-anchored forms of this molecule may play a role in cellular adhesion.

The binding characterization of this antibody was done using ELISA and SPR. The binding affinity of the original IgG2a antibody for mesothelin-Fc protein was determined by BIACore and reported to be  $K_d = 0.6$  nM. This antibody can recognize membrane bound mesothelin on the surface of mesothelin positive H226, A1847, HeLa and Panc3.014 cells (mesothelin-positive) in a flow cytometry. This antibody can also bind denatured human mesothelin in a western blot assay. This antibody was also used in the immunohistochemical staining of cancerous tissue like ovarian adenocarcinoma and normal tissues like peritoneal mesothelium on uterus, pleural mesothelium on lung and fallopian tube luminal fluid (PMID: 16115924). This antibody was used in the development of an ELISA for detection of serum mesothelin levels in healthy volunteers and random hospitalized patients with mesothelioma and ovarian cancer (PMID: 16428485).



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<b>Formulation:</b>	PBS with 0.02% Proclin 300.
<b>Concentration:</b>	lot specific
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.
<b>Database Link:</b>	<a href="#"><u>Q13421</u></a>
<b>Synonyms:</b>	CAK1 antigen; MN; MSLN; Pre-pro-megakaryocyte-potentiating factor