

### 36-2020: Anti-Mesothelin (Mesothelial Marker) Monoclonal Antibody (Clone: MSLN/2131)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	MSLN/2131
<b>Application :</b>	IHC
<b>Reactivity :</b>	Human, Mouse, Rat
<b>Gene :</b>	MSLN
<b>Gene ID :</b>	10232
<b>Uniprot ID :</b>	Q13421
<b>Alternative Name :</b>	CAK1; Megakaryocyte potentiating factor; Mesothelin; MSLN; SMR; SMRP
<b>Isotype :</b>	Mouse IgG2b, kappa
<b>Immunogen Information :</b>	Recombinant fragment (around aa 273-407) of human Mesothelin (MSLN) protein (exact sequence is proprietary)

#### Description

Mesothelin is a 40kDa glycosyl-phosphatidylinositol-anchored glycoprotein cleaved from a 69kDa precursor protein. Mesothelin immunoreactivity is high in cancers of the ovary (serous papillary, endometrioid and undifferentiated) and pancreas, with less frequent staining seen in adenocarcinomas of the endometrium, lung and stomach/esophagus. Mesothelin is one of the most sensitive markers for mesothelioma.

#### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months.

#### Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

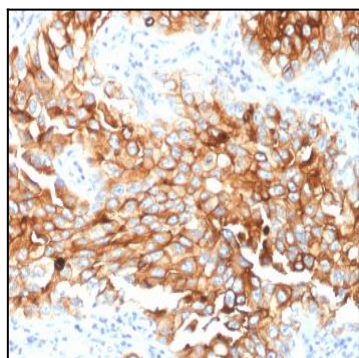


Fig.1: Formalin-fixed, paraffin-embedded human Lung Mesothelioma stained with Mesothelin Mouse Monoclonal Antibody (MSLN/2131).

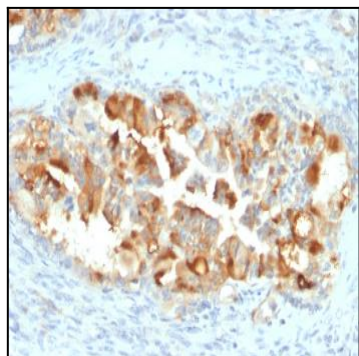


Fig. 2: Formalin-fixed, paraffin-embedded human Endometrial Carcinoma stained with Mesothelin Mouse Monoclonal Antibody (MSLN/2131).

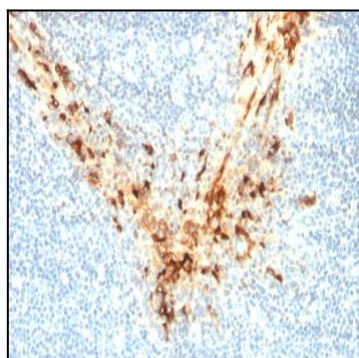


Fig. 3: Formalin-fixed, paraffin-embedded human Tonsil stained with Mesothelin Mouse Monoclonal Antibody (MSLN/2131).

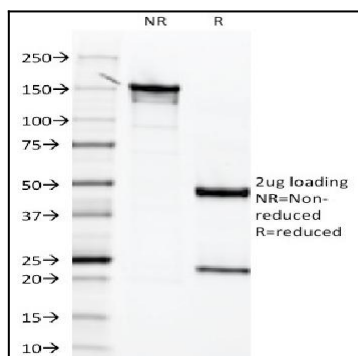


Fig. 4: SDS-PAGE Analysis Purified Mesothelin Mouse Monoclonal Antibody (MSLN/2131). Confirmation of Integrity and Purity of the Antibody.

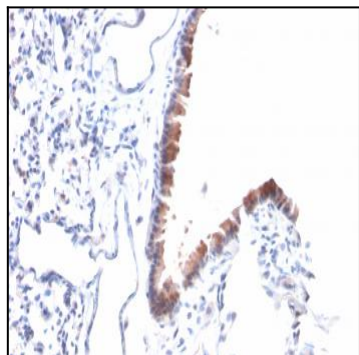


Fig. 5: Formalin-fixed, paraffin-embedded Mouse Lung stained with Mesothelin Mouse Monoclonal Antibody (MSLN/2131).

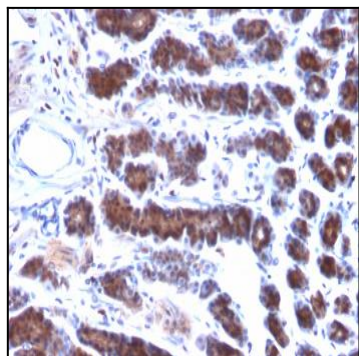


Fig. 6: Formalin-fixed, paraffin-embedded Rat Stomach stained with Mesothelin Mouse Monoclonal Antibody (MSLN/2131).

Fig. 7: Analysis of Protein Array containing more than 19,000 full-length human proteins using Mesothelin Mouse Monoclonal Antibody (MSLN/2131). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.