

#99966 Store at -20°C

# Mesothelin (D9R5G) XP® Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-P	H	Endogenous	46-48, 70	Rabbit IgG	#Q13421	10232

<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunohistochemistry (Paraffin)	<b>Dilution</b> 1:1000 1:250
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.  For a carrier-free (BSA and azide free) version of this product see product #50126.	
<b>Specificity / Sensitivity</b>	Mesothelin (D9R5G) XP® Rabbit mAb recognizes endogenous levels of total mesothelin protein. The antibody detects both uncleaved (full-length) and cleaved forms of mesothelin, but does not detect the cleaved fragment corresponding to megakaryocyte-potentiating factor (MPF).	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to human mesothelin protein.	
<b>Background</b>	The <i>MSLN</i> gene encodes a 69 kDa precursor protein that is proteolytically cleaved to yield megakaryocyte potentiating factor (MPF) and a GPI-anchored membrane protein termed mesothelin (1). Expression of (cleaved) mesothelin is largely confined to mesothelial cells of normal pleura, pericardium, and peritoneum, but has been reported to be overexpressed in some cancers, including mesothelioma, and some pancreatic and ovarian adenocarcinomas (1,2). Although suggested to be involved in cell adhesion, the physiological functions of mesothelin have not been determined. It is known, however, that mesothelin can be shed from the cell surface following cleavage by TNF-α converting enzyme. Research studies show that serum levels of mesothelin are markedly increased in patients with mesothelioma and ovarian cancer (1), suggesting that serum mesothelin levels may have utility as a cancer biomarker (1-3).	
<b>Background References</b>	1. Pastan, I. and Hassan, R. (2014) <i>Cancer Res</i> 74, 2907-12. 2. Villena-Vargas, J. and Adusumilli, P.S. (2012) <i>Ann Cardiothorac Surg</i> 1, 466-71. 3. Hassan, R. et al. (2004) <i>Clin Cancer Res</i> 10, 3937-42.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
<b>Applications Key</b>	<b>WB:</b> Western Blotting <b>IHC-P:</b> Immunohistochemistry (Paraffin)
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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