25919

## Myoglobin (D2F5X) Rabbit mAb



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Applications: W, IF-F	<b>Reactivity:</b> H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 17	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P02144	Entrez-Gene Id: 4151		
Product Usage Information	2	<b>Application</b> Western Blotting Immunofluorescence (Frozen)		<b>Dilution</b> 1:1000 1:400				
Storage		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.						
Specificity/Ser	nsitivity	Myoglobin (D2F5X) Rabbit mAb recognizes endogenous levels of total myoglobin protein.						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu50 of human myoglobin protein.						
Background		Myoglobin (MB) is an oxygen-binding protein that contains one polypeptide chain and one heme group. It is expressed in vertebrate skeletal and cardiac muscles where it plays an essential role in the storage and transport of oxygen to mitochondria. Reversible oxygen binding occurs by a linkage with the imidazole nitrogen of the 91st histidine residue in the myoglobin chain. Research studies indicate that the blockade of myoglobin in isolated cardiac myocytes mimics hypoxia when electrically stimulated for paced contractions (1). During fetal development, myoglobin is required to support cardiac function (2). Diving mammals are known to have high concentrations of myoglobin in their blood, which may contribute to their ability to endure long periods of oxygen deprivation during deep dives (3).						
Background R	eferences	1. White, R.L. and Wite 2. Meeson, A.P. et al. ( 3. Davis, R.W. (2014) J	(2001) <i>Circ Res</i> 88, 7					
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	Buffer	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.						
Applications K	ley	W: Western Blotting IF-F: Immunofluorescence (Frozen)						
Cross-Reactivi	ty Key	H: Human M: Mouse						
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