CD39/NTPDase 1 (E2X6B) XP® Rabbit mAb



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Applications: W, IHC-P	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Rabbit IgG	UniProt ID: #P55772	Entrez-Gene Id: 12495
Product Usage Information					llution	
		Western Blotting Immunohistochemistry (Paraffin)			1:1000 1:200	
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/Sensitivity		CD39/NTPDase 1 (E2X6B) XP [®] Rabbit mAb recognizes endogenous levels of total NTPDase 1 protein.				
Source / Purific	ation	Monoclonal antibody residues surrounding		iunizing animals with a s TPDase 1 protein.	synthetic peptide co	orresponding to
Background		Ectonucleoside triphosphate diphosphohydrolase 1 (NTPDase 1, also known as CD39) is a multi-pass membrane ectoenzyme that metabolizes adenosine-5'-triphosphate (ATP) to regulate purinergic signaling. Purinergic signaling by extracellular ATP and its metabolites regulate many biological processes, including vascular tone, digestion, neuronal function, and inflammation in both normal and diseased states (1). NTPDase 1 is expressed in endothelial cells in the vasculature to regulate local platelet purinergic signaling via metabolism of ATP to adenosine (2). Accordingly, NTPDase 1 regulates platelet activation aggregation and contributes to the antithrombotic properties of endothelial cells (3). ATP and its metabolites also finely modulate the activity of T cells and macrophages (4,5). Immunomodulation is regulated, in part, by the availability of extracellular ATP and adenosine, suggesting that NTPDase 1 (CD39) may play an immunosuppressive role in the tumor microenvironment.				
Background References		 Burnstock, G. and Ralevic, V. (2014) Pharmacol Rev 66, 102-92. Kauffenstein, G. et al. (2010) Cardiovasc Res 85, 204-13. Pinsky, D.J. et al. (2002) J Clin Invest 109, 1031-40. Ohradanova-Repic, A. et al. (2018) Front Immunol 9, 852. Deaglio, S. et al. (2007) J Exp Med 204, 1257-65. 				
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot B	uffer	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.				
	pplications Key W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)					

Cross-Reactivity Key M: Mouse

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