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LAG3 (D2G4O) XP® Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IHC-Bond, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 60-80	Source/Isotype: Rabbit IgG	UniProt ID: #P18627	Entrez-Gene Id 3902	
Product Usage Information	Application			Dilution			
	We	estern Blotting			1:1000		
	IHO	C Leica Bond		1:100 - 1:400			
	Im	munohistochemistry	(Paraffin)	1:100 - 1:400			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
	For	For a carrier free (BSA and azide free) version of this product see product #25848.					
Specificity / Sensit	ivity LAC	LAG3 (D2G4O) XP^{\otimes} recognizes endogenous levels of total LAG3 protein.					
Source / Purification	,	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human LAG3 protein.					
Background	régi extr LAC acti cell: tum	Lymphocyte activation gene 3 (LAG3, CD223) is an immune checkpoint control protein that negatively regulates T cells and immune responses. A CD4-like member of the Ig superfamily, LAG3 contains an extracellular IgV and three IgC domains, a transmembrane domain, and a short cytoplasmic region (1). LAG3 is primarily expressed by activated CD4+ T cells, CD8+ T cells, Tregs, and NK cells, where it's activated by MHC Class II molecules, its only known ligand. While it was initially shown to activate Treg cells (2), LAG3 can also inhibit CD8+ T cells (3,4). LAG3 is often co-expressed with PD-1 on the surface of tumor infiltrating lymphocytes, where the two proteins act independently to contribute to tumor-mediated immune suppression (4,5). Blockade of LAG3 is a promising strategy for neoplastic intervention (6).					
Background Refere	2. H 3. G 4. V 5. M	 Triebel, F. et al. (1990) J Exp Med 171, 1393-405. Huang, C.T. et al. (2004) Immunity 21, 503-13. Grosso, J.F. et al. (2007) J Clin Invest 117, 3383-92. Woo, S.R. et al. (2012) Cancer Res 72, 917-27. Matsuzaki, J. et al. (2010) Proc Natl Acad Sci U S A 107, 7875-80. Goldberg, M.V. and Drake, C.G. (2011) Curr Top Microbiol Immunol 344, 269-78. 					

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot 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 Key

WB: Western Blotting IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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