Revision 7

Store at -20C

#15372

LAG3 (D2G4O) XP® Rabbit mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-Bond, IHC-P	H	Endogenous	60-80	Rabbit IgG	#P18627	3902

Product Usage Information

Application	Dilution
Western Blotting	1:1000
IHC Leica Bond	1:100 - 1:400
Immunohistochemistry (Paraffin)	1:100 - 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.*

For a carrier free (BSA and azide free) version of this product see product #25848.

Specificity/Sensitivity

LAG3 (D2G4O) XP® 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

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 References

1. Triebel, F. et al. (1990) *J Exp Med* 171, 1393-405.
2. Huang, C.T. et al. (2004) *Immunity* 21, 503-13.
3. Grosso, J.F. et al. (2007) *J Clin Invest* 117, 3383-92.
4. Woo, S.R. et al. (2012) *Cancer Res* 72, 917-27.
5. Matsuzaki, J. et al. (2010) *Proc Natl Acad Sci U S A* 107, 7875-80.
6. 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

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

Cross-Reactivity Key

H: Human

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Limited Uses

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