

**LAG3 (D2G4O™) XP® Rabbit mAb
(Biotinylated)**

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

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

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 140 mM NaCl, 3 mM KCl, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

LAG3 (D2G4O™) XP® Rabbit mAb (Biotinylated) 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.

Description

This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated LAG3 (D2G4O™) XP® Rabbit mAb #15372.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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