

CD11α (E5S9K) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IHC-P	H	Endogenous	160	Rabbit IgG	#P20701	3683

Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:50
1:400 - 1:1600

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 #36769.

Specificity/Sensitivity

CD11α (E5S9K) Rabbit mAb recognizes endogenous levels of total CD11α protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val975 of human CD11α protein.

Background

CD11α, also known as integrin alpha-L (ITGAL), is the alpha chain of the lymphocyte function-associated antigen-1 (LFA-1). CD11α combines with the beta chain CD18 (ITGB2) to form LFA-1, an integrin expressed on all leukocytes. LFA-1 plays a central role in leukocyte intercellular adhesion through interactions with its ligands ICAM-1, 2, 3, and 4 (1), F11R/JAM-1 (2,3), and the secreted form of ubiquitin-like protein ISG15 (4). LFA-1 is involved in a variety of immune phenomena including leukocyte-endothelial cell interaction and transmigration (2,3), cytotoxic T cell co-stimulation (5), cytotoxic NK cell mediated killing (6), leukocyte clearance (7), and antibody-dependent killing by granulocytes and monocytes (8,9). LFA-1 is required for generation of common lymphoid progenitor cells in bone marrow, indicating a role in lymphopoiesis (10). High expression of CD11α has been associated with antigen-specific and tumor-reactive T cells (11,12).

Background References

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5. Ni, H.T. et al. (2001) *J Immunol* 166, 6523-9.
6. Barber, D.F. et al. (2004) *J Immunol* 173, 3653-9.
7. Kristóf, E. et al. (2013) *Apoptosis* 18, 1235-51.
8. Springer, T.A. et al. (1985) *Adv Exp Med Biol* 184, 311-22.
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10. Bose, T.O. et al. (2014) *J Immunol* 193, 2863-72.
11. Liu, X. et al. (2013) *Oncoimmunology* 2, e23972.
12. Christiaansen, A.F. et al. (2017) *Vaccine* 35, 4255-61.

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 **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human

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