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-20C
#98611**CRACC/SLAMF7/CD319 (E5C4M) Rabbit mAb**

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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, IHC-Bond, IHC-P	H	Endogenous	25-80	Rabbit IgG	#Q9NQ25	57823

Product Usage Information**Application**

Western Blotting
IHC Leica Bond
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:400
1:150

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 #66110.

Specificity/Sensitivity

CRACC/SLAMF7/CD319 (E5C4M) Rabbit mAb recognizes endogenous levels of total CRACC/SLAMF7/CD319 protein. This antibody may cross-react with several isoforms of CRACC/SLAMF7/CD319 and with varying levels of glycosylation. Non-specific staining was observed in prostate epithelium.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human CRACC/SLAMF7/CD319 protein.

Background

CRACC/SLAMF7/CD319 (also known as CS1) is a member of the signaling lymphocytic activation molecule (SLAM) family. It is a single-pass type I transmembrane glycoprotein expressed on NK cells, subsets of mature dendritic cells, activated B and T lymphocytes, but not in promyelocytic B or T cell lines. Expression of this protein has been detected in the spleen, lymph node, peripheral blood leukocytes, bone marrow, small intestine, stomach, appendix, lung, and trachea (1-5). Homophilic interactions of CRACC/SLAMF7/CD319 modulate the activity and differentiation of immune cells. CRACC/SLAMF7/CD319 may function as an inhibitory or activating receptor in immune cells depending on cellular context and availability of adapter proteins, SH2D1A/SAP and/or SH2D1B/EAT-2 (4-8). In the presence of SH2D1B/EAT-2, CRACC/SLAMF7/CD319 activates NK cells and B cells (4-6). T cells lack SH2D1B/EAT-2 expression, and therefore CRACC/SLAMF7/CD319 acts as an inhibitory receptor (7). In LPS-activated monocytes, CRACC/SLAMF7/CD319 negatively regulates production of proinflammatory cytokines (8). CRACC/SLAMF7/CD319 is upregulated in multiple myeloma and is implicated in the uncontrolled proliferation of these cells, and thus has become the target for therapeutic intervention (9,10). Seven isoforms of CRACC/SLAMF7/CD319 produced by alternative splicing have been identified.

Background References

- Boles, K.S. and Mathew, P.A. (2001) *Immunogenetics* 52, 302-7.
- Tovar, V. et al. (2002) *Immunogenetics* 54, 394-402.
- Murphy, J.J. et al. (2002) *Biochem J* 361, 431-6.
- Bouchon, A. et al. (2001) *J Immunol* 167, 5517-21.
- Kumaresan, P.R. et al. (2002) *Mol Immunol* 39, 1-8.
- Lee, J.K. et al. (2007) *J Immunol* 179, 4672-8.
- Cruz-Munoz, M.E. et al. (2009) *Nat Immunol* 10, 297-305.
- Kim, J.R. et al. (2013) *Inflamm Res* 62, 765-72.
- Tai, Y.T. et al. (2008) *Blood* 112, 1329-37.
- Hsi, E.D. et al. (2008) *Clin Cancer Res* 14, 2775-84.

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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