

Store at
-20C
#44585**Crry Antibody**

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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	M	Endogenous	60-80	Rabbit	#Q64735	12946

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

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.*

Specificity/Sensitivity

Crry Antibody recognizes endogenous levels of total Crry protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu99 of mouse Crry protein. Antibodies are purified by peptide affinity chromatography.

Background

Crry, also known as complement component receptor 1-like protein (Cr1l), is a murine membrane-bound complement regulatory protein ubiquitously expressed in mouse tissues (1,2). Crry is a functional analog of the human complement decay-accelerating factor (DAF/CD55) and membrane cofactor protein (MCP/CD46) (3). In mice, Crry acts as a cofactor for complement factor I, a serine protease which protects autologous cells against complement-mediated injury by cleaving C3b and C4b deposited on host tissues (4,5). Crry also acts as a decay-accelerating factor, preventing the formation of C4b2a and C3bBb, which are amplification convertases of the complement cascade (3,6). Crry plays a crucial role in early embryonic development by maintaining fetomaternal tolerance (7). On CD4⁺ T cells, Crry acts as a costimulatory factor which favors IL-4 rather than IFN-gamma secretion, suggesting Th2 polarization (8). Cancer cells and cells of the tumor microenvironment have been shown to overexpress Crry, suppressing tumor-specific T cell responses and complement-mediated anti-tumor immunity (9,10). Multiple isoforms have been identified computationally.

Background References

1. Paul, M.S. et al. (1989) *J Immunol* 142, 582-9.
2. Li, B. et al. (1993) *J Immunol* 151, 4295-305.
3. Foley, S. et al. (1993) *Eur J Immunol* 23, 1381-4.
4. Molina, H. et al. (1992) *J Exp Med* 175, 121-9.
5. Miwa, T. et al. (2002) *Blood* 99, 3707-16.
6. Kim, Y.U. et al. (1995) *J Exp Med* 181, 151-9.
7. Xu, C. et al. (2000) *Science* 287, 498-501.
8. Fernández-Centeno, E. et al. (2000) *J Immunol* 164, 4533-42.
9. Varela, J.C. et al. (2008) *Cancer Res* 68, 6734-42.
10. Ohta, R. et al. (2004) *J Immunol* 173, 205-13.

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

Cross-Reactivity Key

M: Mouse

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