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KLRA1 Antibody

Catalog # ASC10839

Product Information

Application	WB, IF, ICC, E
Primary Accession	EAW96194
Other Accession	EAW96194, 119616600
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	KLRA1 antibody can be used for detection of KLRA1 by Western blot at 1 - 2 g/mL. Antibody can also be used for immunocytochemistry starting at 4 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	10748
Target/Specificity	KLRA1; At least three isoforms of KLRA1 are known to exist; this antibody recognizes only the long isoform.
Reconstitution & Storage	KLRA1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	KLRA1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

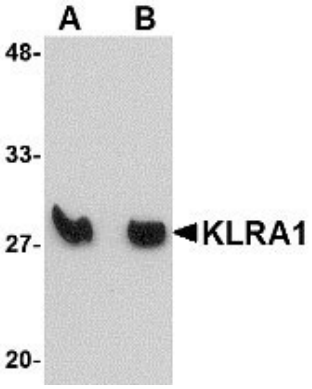
Background

KLRA1 Antibody: KLRA1 (also known as Ly49L) is a member of the LY49 family of receptors in Natural Killer (NK) cells that bind to major histocompatibility complex (MHC) class 1. These proteins are classified as either activating or inhibitory receptors based on whether they possess an immunoreceptor tyrosine-based inhibitory motif (ITIM) in their cytoplasmic region (for inhibitory receptors), or an immunoreceptor tyrosine-based activation motif (ITAM) that transmits activating signals resulting in phosphorylation of several substrates. KLRA1 is thought to be an activating receptor, inducing DAP12 phosphorylation in response to antibody-mediated cross-linking of KLRA1 on NK cells.

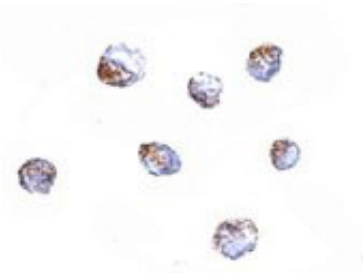
References

Makrigiannis AP, Etzler J, Winkler-Pickett R, et al. Identification of the Ly49L protein: evidence for activating counterparts to inhibitory Ly49 proteins. J. Leuk. Biol.2000; 68:765-71.
Smith HR, Karlhofer FM, and Yokoyama WM. Ly-49 multigene family expressed by IL-2-activated NK cells. J. Immunol.1994; 153:1068-79.
Brennan J, Mager D, Jefferies W, et al. Expression of different members of the Ly-49 gene family defines distinct natural killer cell subsets and cell adhesion properties. J. Exp. Med.1994; 180:2287-95.

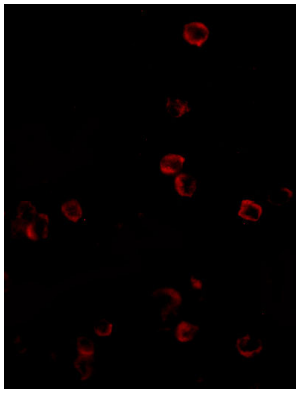
Images



Western blot analysis of KLRA1 in mouse spleen tissue lysate with KLRA1 antibody at (A) 1 µg/mL and (B) 2 µg/mL.



Immunocytochemistry of KLRA1 in 293 cells with KLRA1 antibody at 4 µg/mL.



Immunofluorescence of KLRA1 in 293 cells with KLRA1 antibody at 20 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.