

KLRA1 Antibody
Catalog # ASC10839**Specification**

KLRA1 Antibody - Product Information

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

KLRA1 Antibody - Additional InformationGene 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.

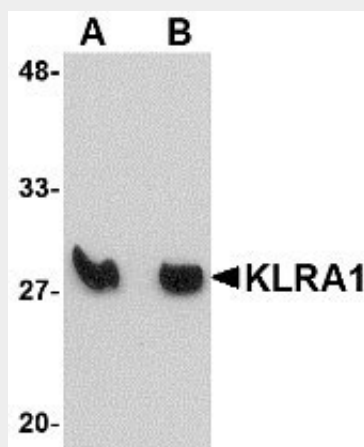
KLRA1 Antibody - Protein Information**KLRA1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

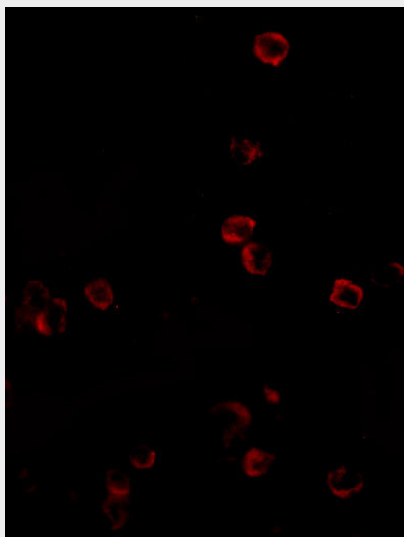
KLRA1 Antibody - Images



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.

KLRA1 Antibody - 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.

KLRA1 Antibody - 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.