

Anti-Ly49B [1A1]

Catalogue number: 151811

Sub-type: Primary antibody

Images:

Contributor

Inventor: Colin Brooks

Institute: Newcastle University

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-Ly49B [1A1]

Alternate name:

CancerTools.org

Class: Monoclonal

Conjugate: Unconjugated

Description: 1A1 specifically recognizes Ly49B in C57 and 129 mice (but not in CBA or BALB mice).

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype: IgG1 kappa

Reactivity: Mouse

Selectivity:

Host: Rat

Immunogen: RNK cells expressing a C57 Ly49B molecule

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls: F4/80+ve peritoneal cells have uniform high expression

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Ly49B

Target alternate names:

Target background: Ly49B is the only member of the mouse Ly49 family that has an identifiable ortholog in the rat, suggesting it may have a distinctive and conserved function in murine species. Study using this antibody revealed that Ly49B is not normally expressed on NK cells but instead is expressed on multiple subpopulations of myeloid cells that include granulocytes and macrophages. This antibody can be used for identification of cells expressing Ly49B by flow cytometry or immunohistochemistry and also has utility in immunoprecipitation and Western blotting of Ly49B protein. Candidate anti-Ly49B mAbs were tested for specificity by staining cells transfected with each of the Ly49 molecules known to be expressed in C57 mice. Several mAbs specific for Ly49B were obtained. The mAb 1A1 strongly stained cells transfected with the C57 Ly49B molecule but showed no detectable staining of cells transfected with Ly49A, C, D, E, F, G, H, I, or Q derived from C57 mice. It also failed to stain cells transfected with an HA-tagged BALB/c Ly49B molecule that was efficiently stained by anti-HA Ab and with several other Ly49B-specific mAbs.

Molecular weight:

Ic50:

Applications

Application: FACS ; IHC ; IP ; WB

Application notes:

Handling

Format: Liquid

Concentration: 0.9-1.1 mg/ml

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer: PBS with 0.02% azide

Storage conditions: -15° C to -25° C

Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: Haan et al. 2008. J Immunol. 180(2):998-1007. PMID: 18178840. ; Dual role of the Jak1 FERM and kinase domains in cytokine receptor binding and in stimulation-dependent Jak activation. ; Sun et al. 2004. J Interferon Cytokine Res. 24(6):350-61. PMID: 15212709. ; Ectopic expression of toll-like receptor-3 (TLR-3) overcomes the double-stranded RNA (dsRNA) signaling defects of P2.1 cells. ; Guo et al. 2000. Virology. 267(2):209-19. PMID: 10662616. ; Induction of the human protein P56 by interferon, double-stranded RNA, or virus infection. ; Leaman et al. 1998. Proc Natl Acad Sci U S A. 95(16):9442-7. PMID: 9689099. ; A mutant cell line defective in response to double-stranded RNA and in regulating basal expression of interferon-stimulated genes. ; Kohlhuber et al. 1997. Mol Cell Biol. 17(2):695-706. PMID: 9001223. ; A JAK1/JAK2 chimera can sustain alpha and gamma interferon responses. ; Rani et al. 1996. J Biol Chem. 271(37):22878-84. PMID: 8798467. ; Characterization of beta-R1, a gene that is selectively induced by interferon beta (IFN-beta) compared with IFN-alpha. ; Lutfalla et al. 1995. EMBO J. 14(20):5100-8. PMID: 7588638. ; Mutant U5A cells are complemented by an interferon-alpha beta receptor subunit generated by alternative processing of a new member of a cytokine receptor gene cluster. ; McKendry et al. 1991. Proc Natl Acad Sci U S A. 88(24):11455-9. PMID: 1837150. ; High-frequency mutagenesis of human cells and characterization of a mutant

unresponsive to both alpha and gamma interferons. ; Pellegrini et al. 1989. Mol Cell Biol. 9(11):4605-12. PMID: 2513475. ; Use of a selectable marker regulated by alpha interferon to obtain mutations in the signaling pathway.

CancerTools.org