

Rat CD244.2 Monoclonal Antibody | anti-CD244.2 antibody

CD244.2 antibody

CATALOG # AAA106703	HOST Rat	APPLICATIONS Western Blot, Immunoprecipitation, Functional Assay, Immunohistochemistry, Flow Cytometry, Functional Assay
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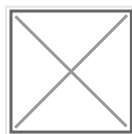
PRODUCT SYNONYMS

CD244.2; Monoclonal Antibody; CD244.2 antibody; Monoclonal CD244.2; Anti-CD244.2; B6 Alloantigen; CD-244.2; CD 244.2; anti-CD244.2 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	244F4
Purity/Purification	CD244.2 antibody was purified by affinity chromatography.
Form/Format	Supplied in aqueous buffer with 0.09% sodium azide, may contain carrier protein/stabilizer.
Concentration	500 ug/ml (varies by lot)
Applicable Applications for anti-CD244.2 antibody	WB (Western Blot), IP (Immunoprecipitation), FA (Functional Assay), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Biological Significance	Mouse CD244, also known as 2B4, is a receptor belonging to the CD2 family of proteins involved in non-MHC dependent cytotoxicity. Expression is found on natural killer cells and many NKT cells and CD8+ cells. In C57BL/6 mice, two splice variants exist that differ in the length of the cytoplasmic domain. The long form functions in an inhibitory manner through signaling through SHP-2, while the short form functions in an activating manner. The ligand for CD244 is CD48 which is expressed on all hematopoietic cells. Recent data suggests that CD244 interactions with CD48, but not CD2 interaction with CD48, is essential for IL-2?driven expansion and activation of murine NK cells. Reports show CD244 expression can discriminate hematopoietic progenitors. Hematopoietic stem cells are highly purified as CD150+CD244-CD48- cells while non-self-renewing multipotent hematopoietic progenitors are CD244+CD150-CD48- and the most restricted progenitors are CD48+CD244+CD150-. 244F4 was generated against cell lines expressing CD244. It reacts with the C57BL/6 but not Balb/c due to polymorphisms present in the immunoglobulin V domain of the protein. The epitope recognized by 244F4 is different from that of 2B4 therefore these antibodies do not cross-block the binding to the respective epitopes.
Preparation and Storage	Store at 2-8 degree C. Do not freeze. Protect from light.

IMAGES



FCM/FACS (Flow Cytometry)

C57BL/6 splenocytes were cultured for 6 days in Mouse IL-2 protein and subsequently stained with 0.125 ug of CD244.2 antibody (filled histogram) or 0.125 ug of Rat IgG2a kappa Isotype Control (open histogram) followed by Anti-Rat IgG (biotin) and Streptavidin (PE).

ADDITIONAL INFORMATION

Related Product Information for anti-CD244.2 antibody	Rat monoclonal CD244.2 antibody
Product Categories/Family for anti-CD244.2 antibody	Immunology

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd2442-antibody-clone-244f4-western-blot-immunoprecipitation-functional-assay-immunohistochemistry-flow-cytometry-elisa/106703>