

anti- CD244 antibody

Product Information

Catalog No.:	FNab01451
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Background

Heterophilic receptor of the signaling lymphocytic activation molecule(SLAM) family; its ligand is CD48. SLAM receptors triggered by homo-or heterotypic cell-cell interactions are modulating the activation and differentiation of a wide variety of immune cells and thus are involved in the regulation and interconnection of both innate and adaptive immune response. Activities are controlled by presence or absence of small cytoplasmic adapter proteins, SH2D1A/SAP and/or SH2D1B/EAT-2. Acts as activating natural killer(NK) cell receptor(PubMed:10359122, PubMed:8376943, PubMed:11714776). Activating function implicates association with SH2D1A and FYN(PubMed:15713798). Downstreaming signaling involves predominantly VAV1, and, to a lesser degree, INPP5D/SHIP1 and CBL. Signal attenuation in the absence of SH2D1A is proposed to be dependent on INPP5D and to a lesser extent PTPN6/SHP-1 and PTPN11/SHP-2(PubMed:10934222, PubMed:15713798). Stimulates NK cell cytotoxicity, production of IFN-gamma and granule exocytosis(PubMed:8376943, PubMed:11714776). Optimal expansion and activation of NK cells seems to be dependent on the engagement of CD244 with CD48 expressed on neighboring NK cells(By similarity). Acts as costimulator in NK activation by enhancing signals by other NK receptors such as NCR3 and NCR1(PubMed:10741393). At early stages of NK cell differentiation may function as an inhibitory receptor possibly ensuring the self-tolerance of developing NK cells(PubMed:11917118). Involved in the regulation of CD8(+) T-cell proliferation; expression on activated T-cells and binding to CD488 provides costimulatory-like function for neighboring T-cells(By similarity). Inhibits inflammatory responses in dendritic cells(DCs)(By similarity).

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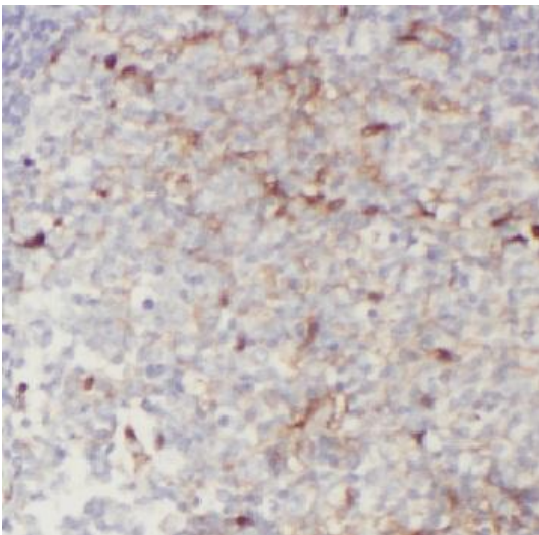
Immunogen information

Immunogen: CD244 molecule, natural killer cell receptor 2B4
Synonyms: 2B4, CD244, h2B4, NAIL, NKR2B4, SLAMF4
Observed MW: None
Uniprot ID : Q9BZW8

Application

Reactivity: Human
Tested Application: ELISA, IHC
Recommended dilution: IHC: 1:20-1:200

Image:



Immunohistochemistry of paraffin-embedded human tonsillitis tissue slide using FNab01451(CD244 Antibody) at dilution of 1:100

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