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CD226 Rabbit mAb

Catalog # AP75217

Product Information

Application	WB, IHC-P, IHC-F, IP
Primary Accession	Q8K4F0
Reactivity	Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	38063

Additional Information

Gene ID	225825
Other Names	Cd226
Dilution	WB~~1:500-1:1000 IHC-P~~N/A IHC-F~~N/A IP~~1:20-1:50
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

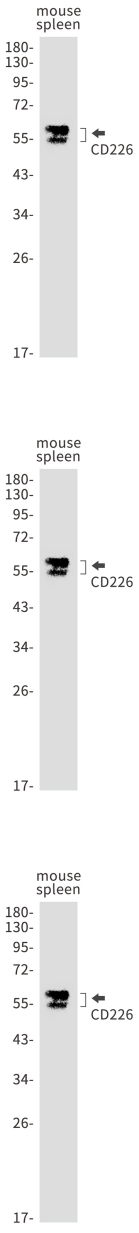
Name	Cd226
Synonyms	Pta1
Function	Cell surface receptor that plays an important role in the immune system, particularly in intercellular adhesion, lymphocyte signaling, cytotoxicity and lymphokine secretion mediated by cytotoxic T-cells and NK cells (PubMed:19029379, PubMed:24658051, PubMed:26552706). Functions as a costimulatory receptor upon recognition of target cells, such as virus-infected or tumor cells. Upon binding to its ligands PVR/CD155 or NECTIN2/CD112 on target cells, promotes the cytotoxic activity of NK cells and CTLs, enhancing their ability to kill these cells (PubMed:30591568). Mechanistically, phosphorylation by Src kinases such as LYN of FYN, enables binding to adapter GRB2, leading to activation of VAV1, PI3K and PLCG1. Promotes also activation of kinases ERK and AKT, as well as calcium fluxes (By similarity).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:Q15762}; Single-pass type I

membrane protein {ECO:0000250|UniProtKB:Q15762} Note=Localizes to lipid rafts. {ECO:0000250|UniProtKB:Q15762}

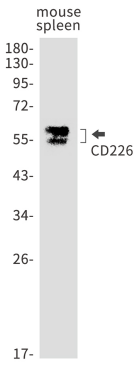
Background

Involved in intercellular adhesion, lymphocyte signaling, cytotoxicity and lymphokine secretion mediated by cytotoxic T-lymphocyte (CTL) and NK cell. Cell surface receptor for NECTIN2. Upon ligand binding, stimulates T-cell proliferation and cytokine production, including that of IL2, IL5, IL10, IL13, and IFNG. Competes with PVRIG for NECTIN2-binding.

Images



Western blot analysis of CD226 in mouse spleen lysates using CD226 antibody.



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