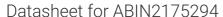
antibodies .- online.com







anti-HCST antibody (AA 19-48) (Alexa Fluor 555)



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Quantity:	100 μL	
Target:	HCST	
Binding Specificity:	AA 19-48	
Reactivity:	Human, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This HCST antibody is conjugated to Alexa Fluor 555	
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))	

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human HCST
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Purification:	Purified by Protein A.

Target Details

Target:	HCST	
Alternative Name:	Hcst (HCST Products)	
Background:	kground: Synonyms: DAP10, KAP10, PIK3AP, Hematopoietic cell signal transducer, DNAX-activation	

protein 10, Membrane protein DAP10, Transmembrane adapter protein KAP10, HCST, UNQ587/PR01157

Background: Transmembrane adapter protein which associates with KLRK1 to form an activation receptor KLRK1-HCST in lymphoid and myeloid cells, this receptor plays a major role in triggering cytotoxicity against target cells expressing cell surface ligands such as MHC class I chain-related MICA and MICB, and UL16-binding proteins (ULBPs), these ligands are upregulated by stress conditions and pathological state such as viral infection and tumor transformation. Functions as docking site for Pl3-kinase PlK3R1 and GRB2. Interaction of ULBPs with KLRK1-HCST triggers calcium mobilization and activation of the PlK3R1, MAP2K/ERK, and JAK2/STAT5 signaling pathways. Both PlK3R1 and GRB2 are required for full KLRK1-HCST-mediated activation and ultimate killing of target cells. In NK cells, KLRK1-HCST signaling directly induces cytotoxicity and enhances cytokine production initiated via DAP12/TYROBP-associated receptors. In T-cells, it provides primarily costimulation for TCR-induced signals. KLRK1-HCST receptor plays a role in immune surveillance against tumors and is required for cytolysis of tumors cells, indeed, melanoma cells that do not express KLRK1 ligands escape from immune surveillance mediated by NK cells.

Gene ID: 10870
UniProt: 09UBK5

Application Details

Application Notes: FCM 1:20-100

IF(IHC-P) 1:50-200

IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.	
Storage:	-20 °C	
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.	
Expiry Date:	12 months	