

Product datasheet

Anti-CD45 antibody [I3/2.3] (PE/Cy5®) ab25460

1 References

Overview

Product name	Anti-CD45 antibody [I3/2.3] (PE/Cy5®)
Description	Rat monoclonal [I3/2.3] to CD45 (PE/Cy5®)
Host species	Rat
Conjugation	PE/Cy5®. Ex: 496nm, Em: 670nm
Specificity	ab25460 recognizes a framework epitope present on all CD45 isoforms.
Tested applications	Suitable for: Flow Cyt, IHC-Fr, IP, RIA
Species reactivity	Reacts with: Mouse
Immunogen	The details of the immunogen for this antibody are not available.
General notes	This product or portions thereof is manufactured under license from Carnegie Mellon University under U.S. Patent Number 5,268,486 and related patents. Cy and CyDye are trademarks of GE Healthcare Limited.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: 16% Sucrose, 0.2% Gelatin, PBS; Stabilizing agent
Purity	IgG fraction
Clonality	Monoclonal
Clone number	I3/2.3
Isotype	IgG2b
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab25460** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		
IHC-Fr		
IP		
RIA		
Application notes	<p>Flow Cyt: Use 0.2µg for 10⁶ cells. See Haidl et al. IHC-Fr: Use at an assay dependent dilution. IP: Use at an assay dependent dilution. RIA: Use at an assay dependent dilution.</p> <p>Not yet tested in other applications. Optimal dilutions/concentrations should be determined by the end user.</p>	
Target		
Function	<p>Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor. Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN.</p>	
Involvement in disease	<p>Defects in PTPRC are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive (T(-)B(+)NK(+)) SCID [MIM:608971]. A form of severe combined immunodeficiency (SCID), a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment of both humoral and cell-mediated immunity, leukopenia, and low or absent antibody levels. Patients present in infancy recurrent, persistent infections by opportunistic organisms. The common characteristic of all types of SCID is absence of T-cell-mediated cellular immunity due to a defect in T-cell development. Genetic variations in PTPRC are involved in multiple sclerosis susceptibility (MS) [MIM:126200]. MS is a neurodegenerative disorder characterized by the gradual accumulation of focal plaques of demyelination particularly in the periventricular areas of the brain. Peripheral nerves are not affected. Onset usually in third or fourth decade with intermittent progression over an extended period. The cause is still uncertain.</p>	
Sequence similarities	<p>Belongs to the protein-tyrosine phosphatase family. Receptor class 1/6 subfamily. Contains 2 fibronectin type-III domains. Contains 2 tyrosine-protein phosphatase domains.</p>	
Domain	<p>The first PTPase domain interacts with SKAP1.</p>	
Post-translational modifications	<p>Heavily N- and O-glycosylated.</p>	
Cellular localization	<p>Membrane. Membrane raft. Colocalized with DPP4 in membrane rafts.</p>	

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