

Product datasheet for UM870180

OriGene Technologies, Inc.

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CD45 (PTPRC) Mouse Monoclonal Antibody [Clone ID: UMAB291]

Product data:

Product Type: Primary Antibodies

Clone Name: UMAB291

Applications: IHC

Host: Mouse

Isotype: IgG1

Clonality: Monoclonal

Immunogen: Human recombinant protein fragment corresponding to amino acids 221-396 of human

CD45 (NP_002829) produced in E.coli.

Formulation: PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

Concentration: 1 mg/ml

Purification: Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: Unconjugated

Predicted Protein Size: 147.1 kDa

Gene Name: protein tyrosine phosphatase receptor type C

Database Link: NP 002829

Entrez Gene 5788 Human

P08575

Background: The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP)

family. PTPs are known to be signaling molecules that regulate a variety of cellular processes

including cell growth, differentiation, mitosis, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem

intracytoplasmic catalytic domains, and thus is classified as a receptor type PTP. This PTP has

been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine

receptor signaling. Alternatively spliced transcripts variants of this gene, which encode

distinct isoforms, have been reported. [provided by RefSeq, Jun 2012]





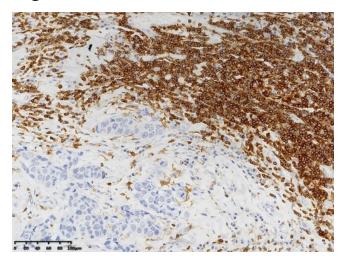
Synonyms: B220; CD45; CD45R; GP180; L-CA; LCA; LY5; T200

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Phosphatase, Transmembrane

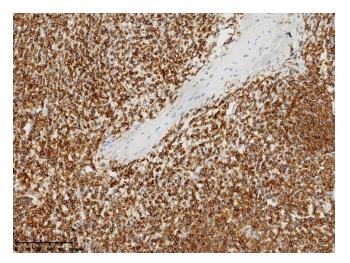
Protein Pathways: Cell adhesion molecules (CAMs), Fc gamma R-mediated phagocytosis, Primary

immunodeficiency, T cell receptor signaling pathway

Product images:

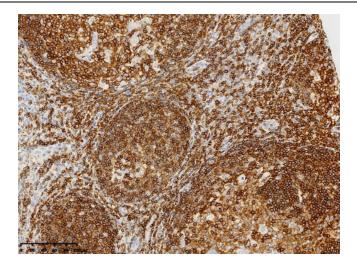


Immunohistochemical staining of paraffinembedded Carcinoma of Human lung tissue using anti-CD45 (PTPRC) mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 3 min, [UM800180]) (1:500)

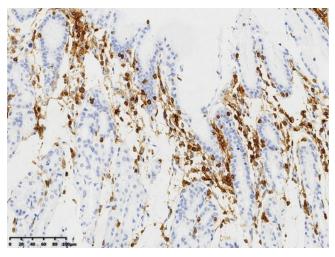


Immunohistochemical staining of paraffinembedded Human lymphoma tissue using anti-CD45 (PTPRC) mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 3 min, [UM800180]) (1:500)

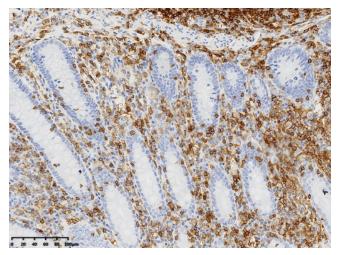




Immunohistochemical staining of paraffinembedded Human tonsil within the normal limits using anti-CD45 (PTPRC) mouse monoclonal antibody.(Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 3 min, [UM800180]) (1:500)



Immunohistochemical staining of paraffinembedded Human gastric tissue within the normal limits using anti-CD45 (PTPRC) mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 3 min, [UM800180]) (1:500)



Immunohistochemical staining of paraffinembedded Human appendix tissue within the normal limits using anti-CD45 (PTPRC) mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 3 min, [UM800180]) (1:500)