

Product Information

Anti-PTPRC
antibody produced in chicken,
affinity isolated antibody

Catalog Number **GW21465**
Formerly listed as GenWay Catalog Number 15-288-21465,
Leukocyte common antigen Antibody.

Storage Temperature Store at -20°C

Synonyms: Protein tyrosine phosphatase, receptor type, C isoform 1, EC 3.1.3.48; L-CA; CD45 antigen; T200

Product Description

Required for T-cell activation through the antigen receptor. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. 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, mitotic cycle, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus belongs to receptor type PTP. This protein is specifically expressed in hematopoietic cells. 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. Four alternatively spliced transcripts variants of this gene, which encode distinct isoforms have been reported.

NCBI Accession number: NP_002829.2
Swiss Prot Accession number: P08575

Gene Information: Human .. PTPRC (5788)

Immunogen: Recombinant protein Protein tyrosine phosphatase, receptor type, C isoform 1

Immunogen Sequence: GI # 18641347, sequence 482 - 552

The product is a clear, colorless solution in phosphate buffered saline, pH 7.2, containing 0.02% sodium azide.

Species Reactivity: Human

Tested Applications: WB

Recommended Dilutions: Recommended starting dilution for Western blot analysis is 1:500, for tissue or cell staining 1:200.

Note: Optimal concentrations and conditions for each application should be determined by the user.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at $2-8^{\circ}\text{C}$ for up to one week. For extended storage, store in -20°C freezer in working aliquots. Repeated freezing and thawing, or storage in "frostfree" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

LPG,MAM12/09-1

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