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PTPRC Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP11708a

Specification

PTPRC Antibody (N-term) Blocking peptide - Product Information

Primary Accession P08575

PTPRC Antibody (N-term) Blocking peptide - Additional Information

Gene ID 5788

Other Names
Receptor-type tyrosine-protein phosphatase C, Leukocyte common antigen, L-CA, T200, CD45, PTPRC, CD45

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PTPRC Antibody (N-term) Blocking peptide - Protein Information

Name PTPRC (HGNC:9666)

Synonyms CD45

Function
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. Dephosphorylates LYN, and thereby modulates LYN activity (By similarity).

Cellular Location
Cell membrane; Single-pass type I membrane protein. Membrane raft Note=Colocalized with DPP4 in membrane rafts

Tissue Location
Isoform 1: Detected in thymocytes. Isoform 2: Detected in thymocytes. Isoform 3: Detected in thymocytes. Isoform 4: Not detected in thymocytes. Isoform 5: Detected in thymocytes. Isoform 6: Not detected in thymocytes. Isoform 7: Detected in thymocytes Isoform 8: Not detected in thymocytes.

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PTPRC Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

PTPRC Antibody (N-term) Blocking peptide - Images

PTPRC Antibody (N-term) Blocking peptide - Background

Transcriptional activator which binds specifically to the MEF2 element, 5'-YTA[AT](4)TAR-3', found in numerous muscle-specific, growth factor-and stress-induced genes. Mediates cellular functions not only in skeletal and cardiac muscle development, but also in neuronal differentiation and survival. Plays diverse roles in the control of cell growth, survival and apoptosis via p38 MAPK signaling in muscle-specific and/or growth factor-related transcription. Plays a critical role in the regulation of neuronal apoptosis (By similarity).

PTPRC Antibody (N-term) Blocking peptide - References

Jablonski, K.A., et al. Diabetes 59(10):2672-2681(2010)Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Aude-Garcia, C., et al. Biochem. J. 430(2):237-244(2010)Czubryt, M.P., et al. J. Biol. Chem. 285(22):16942-16950(2010)Yoshida, T., et al. Int. J. Mol. Med. 25(4):649-656(2010)