

**PTPRC Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP11708a**

**Specification**

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**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.

**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)