

PTPRC/CD45R0 Protein, Human (HEK293, His)

Cat. No.:	HY-P7888
Synonyms:	rHuReceptor-type tyrosine-protein phosphatase C/ CD45R0, His; B220; CD45 antigen; CD45; CD45R; LCA; L-CA; LY5; protein tyrosine phosphatase, receptor type, C; PTPRC; receptor-type tyrosine-protein phosphatase C; CD45R0
Species:	Human
Source:	HEK293
Accession:	P08575-4 (Q26-K577)
Gene ID:	5788
Molecular Weight:	80-120 kDa

PROPERTIES

AA Sequence	<p>Q S P T P S P T D A Y L N A S E T T T L S P S G S A V I S T T T I A T T P S K P</p> <p>T C D E K Y A N I T V D Y L Y N K E T K L F T A K L N V N E N V E C G N N T C T</p> <p>N N E V H N L T E C K N A S V S I S H N S C T A P D K T L I L D V P P G V E K F</p> <p>Q L H D C T Q V E K A D T T I C L K W K N I E T F T C D T Q N I T Y R F Q C G N</p> <p>M I F D N K E I K L E N L E P E H E Y K C D S E I L Y N N H K F T N A S K I I K</p> <p>T D F G S P G E P Q I I F C R S E A A H Q G V I T W N P P Q R S F H N F T L C Y</p> <p>I K E T E K D C L N L D K N L I K Y D L Q N L K P Y T K Y V L S L H A Y I I A K</p> <p>V Q R N G S A A M C H F T T K S A P P S Q V W N M T V S M T S D N S M H V K C R</p> <p>P P R D R N G P H E R Y H L E V E A G N T L V R N E S H K N C D F R V K D L Q Y</p> <p>S T D Y T F K A Y F H N G D Y P G E P F I L H H S T S Y N S K</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CD45 regulates the interaction between T cells and macrophages via its ligand macrophage galactose-type lectin which
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binds to CD45 N-acetylgalactosamine and results in decreasing the level of T cell proliferation with proinflammatory cytokine production leading to T cell apoptosis.

REFERENCES

- [1]. Maryam Ahmed Al Barashdi, et al. Protein tyrosine phosphatase receptor type C (PTPRC or CD45). J Clin Pathol. 2021 Sep;74(9):548-552.
- [2]. T Miyawaki, et al. Expression of CD45R0 (UCHL1) by CD4+ and CD8+ T cells as a sign of in vivo activation in infectious mononucleosis. Clin Exp Immunol. 1991 Mar;83(3):447-51.
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Caution: Product has not been fully validated for medical applications. For research use only.

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