

CD45 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P7884
Synonyms:	rMuReceptor-type tyrosine-protein phosphatase C/CD45, His; B220; CD45 antigen; CD45; CD45R; LCA; L-CA; LY5; protein tyrosine phosphatase, receptor type, C; PTPRC; receptor-type tyrosine-protein phosphatase C
Species:	Mouse
Source:	HEK293
Accession:	P06800 (Q26-K566)
Gene ID:	19264
Molecular Weight:	120-160 kDa

PROPERTIES

AA Sequence

Q T P T P S D E L S	T T E N A L L L P Q	S D P L P A R T T E	S T P P S I S E R G
N G S S E T T Y H P	G V L S T L L P H L	S P Q P D S Q T P S	A G G A D T Q T F S
S Q A D N P T L T P	A P G G G T D P P G	V P G E R T V P G T	I P A D T A F P V D
T P S L A R N S S A	A S P T H T S N V S	T T D I S S G A S L	T T L T P S T L G L
A S T D P P S T T I	A T T T K Q T C A A	M F G N I T V N Y T	Y E S S N Q T F K A
D L K D V Q N A K C	G N E D C E N V L N	N L E E C S Q I K N	I S V S N D S C A P
A T T I D L Y V P P	G T D K F S L H D C	T P K E K A N T S I	C L E W K T K N L D
F R K C N S D N I S	Y V L H C E P E N N	T K C I R R N T F I	P E R C Q L D N L R
A Q T N Y T C V A E	I L Y R G V K L V K	N V I N V Q T D L G	I P E T P K P S C G
D P A A R K T L V S	W P E P V S K P E S	A S K P H G Y V L C	Y K N N S E K C K S
L P N N V T S F E V	E S L K P Y K Y Y E	V S L L A Y V N G K	I Q R N G T A E K C
N F H T K A D R P D	K V N G M K T S R P	T D N S I N V T C G	P P Y E T N G P K T
F Y I L V V R S G G	S F V T K Y N K T N	C Q F Y V D N L Y Y	S T D Y E F L V S F
H N G V Y E G D S V	I R N E S T N F N A	K	

Biological Activity The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

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 ddH₂O. 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 binds to CD45 N-acetylgalactosamine and results in decreasing the level of T cell proliferation with proinflammatory cytokine production leading to T cell apoptosis^[1].

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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