

## DEC-205/CD205 Protein, Human (HEK293, His)

**Cat. No.:** HY-P74203  
**Synonyms:** Lymphocyte antigen 75; CD205; CLEC13B; DEC-205; LY-75  
**Species:** Human  
**Source:** HEK293  
**Accession:** O60449 (A32-G1664)  
**Gene ID:** 4065  
**Molecular Weight:** Approximately 190 kDa due to the glycosylation.

### PROPERTIES

#### AA Sequence

ANDPFTIVHG	NTGKCIKPVY	GWIVADDCDE	TEDKLWKWVS
QHRLFHLHSQ	KCLGLDITKS	VNELRMFSCD	SSAMLWVKCE
HHSLYGAARY	RLALKDGHGT	AISNASDVWK	KGGSEESLCD
QPYHEIYTRD	GNSYGRPCEF	PFLIDGTWHH	DCILDEDHSG
PWCATTLNYE	YDRKWGICLK	PENGCEDNWE	KNEQFGSCYQ
FNTQTALSWK	EAYVSCQNQG	ADLLSINSAA	ELTYLKEKEG
IAKIFWIGLN	QLYSARGWEW	SDHKPLNFLN	WDPDRPSAPT
IGGSSCARMD	AESGLWQSFS	CEAQLPYVCR	KPLNNTVELT
DVWTYS DTRC	DAGWLPNNGF	CYLLVNESNS	WDKAHAKCKA
FSSDLISIHS	LADVEVVVTK	LHNEDIKEEV	WIGLKNINIP
TLFQWSDGTE	VTLTYWDENE	PNVPYNKTPN	CVSYLGELGQ
WKVQSCEEKL	KYVCKRKGEK	LNDASSDKMC	PPDEGWKRHG
ETCYKIYEDE	VPPFGTNCNLT	ITSRFEQEYL	NDLMKKYDKS
LRKYFWTGLR	DVDSCGEYNW	ATVGGRRRAV	TFSNWNFLEP
ASPGGCVAMS	TGKSVGKWEV	KDCRSFKALS	ICKKMSGPLG
PEEASPKPDD	PCPEGWQSFP	ASLSCYKVFH	AERIVRKRNW
EEAERFCQAL	GAHLSSFSHV	DEIKEFLHFL	TDQFSGQHWL
WIGLNKRSPD	LQGSWQWSDR	TPVSTIIMPV	EFQQDYDIRD
CAAVKVFHRP	WRRGWHFYDD	REFIYLRPFA	CDTKLEWVCQ
IPKGRTPKTP	DWYNPDRAGI	HGPPLIEGS	EYWFVADLHL
NYEEAVLYCA	SNHSFLATIT	SFVGLKAIKN	KIANISGDGQ
KWWIRISEWP	IDDHFTYSRY	PWHRFPVTFG	EECLYMSAKT
WLIDLGKPTD	CSTKLPFICE	KYNVSSLEKY	SPD SAAKVQC
SEQWIPFQNK	CFLKIKPVSL	TFSQASDTCH	SYGGTLP SVL
SQIEQDFITS	LLPDMEATLW	IGLRWTAYEK	INKWTDNREL
TYSNFHPLL V	SGRLRIPENF	FEEESRYHCA	LILNLQKSPF
TGTWNFTSCS	ERHFVSLCQK	YSEVKSRQTL	QNASSETVKYL
NNLYKIIPKT	LTWHS AKREC	LKSNMQLVSI	TDPYQQAFLS
VQALLHNSSL	WIGLFSQDDE	LNF GWS DGKR	LHFSRWAETN
GQLED CVVLD	TDGFWKT VDC	NDNQPGAICY	YSGNETEKEV
KPVDSVKCPS	PVLNTPWIPF	QNCCYNFIIT	KNRHMATTQD

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

<b>Biological Activity</b>	Immobilized Recombinant Rat CD302 Protein Protein at 5 µg/mL (100 µL/well) can bind Biotinylated Human CD205 protein. The ED <sub>50</sub> for this effect is 4.075 µg/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

## DESCRIPTION

### Background

DEC-205/CD205 protein serves as an endocytic receptor, facilitating the transportation of captured antigens from the extracellular space to a specialized antigen-processing compartment. This function positions DEC-205/CD205 at the forefront of antigen presentation, playing a crucial role in immune surveillance and the initiation of immune responses. Moreover, its involvement leads to the downregulation of B-lymphocyte proliferation, highlighting its regulatory impact on immune cell dynamics and responses.

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

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