

CD177 Protein, Human (HEK293, His)

Cat. No.:	HY-P7801
Synonyms:	rHuCD177, His; CD177 Antigen; Human Neutrophil Alloantigen 2a; HNA-2a; NB1 Glycoprotein; NB1 GP; Polycythemia Rubra Vera Protein 1; CD177; NB1; PRV1
Species:	Human
Source:	HEK293
Accession:	AAH29167.1 (L22-G407)
Gene ID:	57126
Molecular Weight:	51-55 kDa

PROPERTIES

AA Sequence	<div> <div> L L C Q F G T V Q H I E S G P Q V S L V F V C R Q E D F C N C L E G T T E E I C Q P G C N L L N G T N L A Q E P T D W T T K G C S T V G A Q A S S S S V L L N S M T C P R G T T H C N H T R Q I G I F S </div> <div> V W K V S D L P R Q L S K G C T E A K D N L V N S L P L W A P K G T T H C Y D G Q E I G P V G M T E T S N T E M C E V G N S Q K T T I H S A L P P Q A A P V P G Y D G Y I H L S G G A R E K R D V Q P P </div> <div> W T P K N T S C D S Q E P R V T E H R M P Q P P A D P G S L L L R L R G G G I F N C N R K D F L T C Q V C Q E T L L L L P P G V L V A S Y T D R Q C P T C V Q P G L S T K M S I Q G A S Q H E G H H H H </div> <div> G L G C Q D T L M L G P G L S L I S Y T R C P V C L S M E G S N L R V Q G C M P H R G T T I M T H G D V G L T S T L V G H F C S S D L C N S L G T C S S G S P R C V A Q P S S F L L H H </div> </div>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM PB, 150 mM NaCl, pH 7.2.
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	The gene encoding NB1 glycoprotein, the molecule that carries HNA-2a, has been identified and is known as CD177. The gene encoding NB1 glycoprotein, the molecule that carries HNA-2a, has been identified and is known as CD177. CD177 has
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an important role in immunogenetics^{[1][2]}.

REFERENCES

[1]. Stroncek DF. Neutrophil-specific antigen HNA-2a, NB1 glycoprotein, and CD177. Curr Opin Hematol. 2007 Nov;14(6):688-93.

[2]. Kissel K, et, al. Molecular basis of the neutrophil glycoprotein NB1 (CD177) involved in the pathogenesis of immune neutropenias and transfusion reactions. Eur J Immunol. 2001 May;31(5):1301-9.

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

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