

Rabbit anti-Human, Rat CD177 Polyclonal Antibody | anti-CD177 antibody

CD177 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323365	Rabbit	Human, Rat	ELISA, Immunohistochemistry, Western Blot

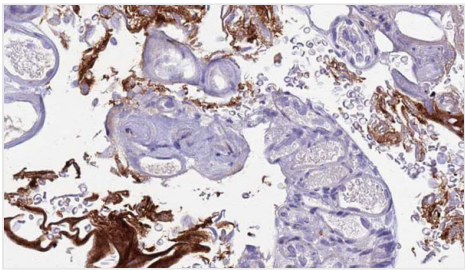
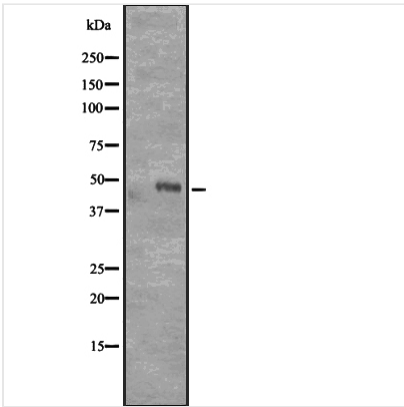
PRODUCT SYNONYMS

CD177; Polyclonal Antibody; CD177 Antibody; CD177 antigen; CD177 molecule; CD177_HUMAN; HNA-2a; HNA2A; Human neutrophil alloantigen 2a; NB1; NB1 glycoprotein; NB1 GP; Polycythemia rubra vera 1; Polycythemia rubra vera protein 1; PRV-1; PRV1; anti-CD177 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CD177 antibody detects endogenous levels of total CD177
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	437
Applicable Applications for anti-CD177 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cell Membrane
Tissue Specificity	Highly expressed in normal bone marrow and weakly expressed in fetal liver (PubMed:10753836). During neutrophil differentiation, expression begins at the metamyelocyte stage and continues throughout the subsequent stages (at protein level) (PubMed:17244676, PubMed:18462208, PubMed:24926686). Expressed by a subset of mature neutrophils (at protein level) (PubMed:10753836, PubMed:28240246, PubMed:12377969, PubMed:18462208, PubMed:12675722, PubMed:17244676, PubMed:17580308, PubMed:21193407, PubMed:24926686, PubMed:28807980, PubMed:27227454). The percentage of neutrophils expressing CD177 varies across the population (PubMed:17244676, PubMed:27227454). Expressed in granulocytes of patients with polycythemia vera (PV) and with essential thrombocythemia (ET) (PubMed:10753836, PubMed:12377969).
Conjugation	Unconjugated

IMAGES



IHC (Immunohistochemistry)
AAA323365 at 1/100 staining Human urothelial cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of CD177 expression in Transfected 293T cell lysate, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CD177 antibody

Function: In association with beta-2 integrin heterodimer ITGAM/CD11b and ITGB2/CD18, mediates activation of TNF-alpha primed neutrophils including degranulation and superoxide production (PubMed:21193407). In addition, by preventing beta-2 integrin internalization and attenuating chemokine signaling favors adhesion over migration (PubMed:28807980). Heterophilic interaction with PECAM1 on endothelial cells plays a role in neutrophil transendothelial migration in vitro (PubMed:17580308). However, appears to be dispensable for neutrophil recruitment caused by bacterial infection in vivo (PubMed:23461681). Acts as a receptor for the mature form of protease PRTN3 allowing its display at the cell surface of neutrophils (PubMed:17244676, PubMed:18462208). By displaying PRTN3 at the neutrophil cell surface, may play a role in enhancing endothelial cell junctional integrity and thus vascular integrity during neutrophil diapedesis (PubMed:23202369).

Subunit Structure: Found in a complex with integrin ITGAM/CD11b and ITGB2/CD18 (PubMed:28807980, PubMed:21193407). Interacts with PECAM1 (via Ig-like C2-type domain 6); the interaction is Ca2+-dependent; the interaction is direct (PubMed:17580308). Interacts with serine protease PRTN3/myeloblastin; the interaction tethers PRTN3 to the cell surface; the interaction is direct (PubMed:17244676, PubMed:28240246).

Post-translational Modifications: N-glycosylated. A soluble form may also be produced by proteolytic cleavage at the cell surface (shedding).

NCBI AND UNIPROT INFORMATION

NCBI GI #	110735433
NCBI GeneID	57126
NCBI Accession #	NP_065139.2
NCBI GenBank Nucleotide #	NM_020406.3
UniProt Accession #	Q8N6Q3; Q711Q2; Q8NCV9; Q96QH1; Q9HDA5
Molecular Weight	Observed: 46 kDa Predicted: 47 kDa
NCBI Official Full Name	CD177 antigen
NCBI Official Synonym Full Names	CD177 molecule
NCBI Official Symbol	CD177
NCBI Official Synonym Symbols	NB1; PRV1; HNA2A; PRV-1; HNA-2a; NB1 GP
NCBI Protein Information	CD177 antigen
UniProt Protein Name	CD177 antigen

UniProt Gene Name	CD177
UniProt Synonym Gene Names	NB1; PRV11 PublicationManual assertion based on opinion iniRef.1; PRV-11 PublicationManual assertion based on opinion iniRef.1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/cd177-antibody-immunohistochemistry-western-blot-elisa/323365>