

CD177 Antibody (clone 4C4)
Mouse Monoclonal Antibody
Catalog # ALS14100**Specification**

CD177 Antibody (clone 4C4) - Product Information

Application	WB, IP
Primary Accession	Q8N6Q3
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	46kDa KDa

CD177 Antibody (clone 4C4) - Additional Information**Gene ID** 57126**Other Names**

CD177 antigen, Human neutrophil alloantigen 2a, HNA-2a, NB1 glycoprotein, NB1 GP, Polycythemia rubra vera protein 1, PRV-1, CD177, CD177, NB1, PRV1

Target/Specificity

Human CD177

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

CD177 Antibody (clone 4C4) is for research use only and not for use in diagnostic or therapeutic procedures.

CD177 Antibody (clone 4C4) - Protein Information**Name** CD177 ([HGNC:30072](#))**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).

target="_blank">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).

Cellular Location

Cell membrane; Lipid-anchor, GPI-anchor. Membrane raft; Lipid-anchor, GPI-like-anchor. Secreted. Cytoplasmic granule membrane. Cell projection, lamellipodium. Note=Cell surface expression on neutrophils is increased upon TNF-alpha, fMLP or CXCL8/IL8-mediated stimulation (PubMed:17244676, PubMed:17580308). In neutrophils, stored predominantly in secondary and tertiary granules (PubMed:18462208). Can also be shedded from the cell membrane (PubMed:12239154, PubMed:18462208). Localizes to lamellar protrusions in spreading neutrophils (PubMed:28807980)

Tissue Location

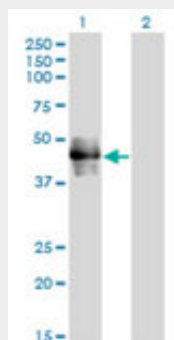
Highly expressed in normal bone marrow and weakly expressed in fetal liver (PubMed:10753836). During neutrophil differentiation, expression begins at the metamyelocyte stage and continues throughout the subsequent stages (at protein level) (PubMed:17244676, PubMed:18462208, PubMed:24926686). Expressed 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).

CD177 Antibody (clone 4C4) - Protocols

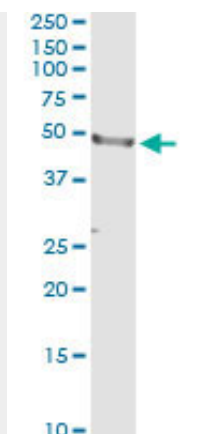
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD177 Antibody (clone 4C4) - Images



Western blot of CD177 expression in transfected 293T cell line by CD177 monoclonal antibody,...



Immunoprecipitation of CD177 transfected lysate using anti-CD177 monoclonal antibody and Protein...

CD177 Antibody (clone 4C4) - References

- Temerinac S.,et al.Blood 95:2569-2576(2000).
Kissel K.,et al.Eur. J. Immunol. 31:1301-1309(2001).
Kissel K.,et al.Blood 99:4231-4233(2002).
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.