

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD177 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CD177 Leu22-Gly407 Accession # AAH29167
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

CD177 is a polymorphic gene in the leukocyte antigen (Ly6) uPAR superfamily. It encodes at least two alleles of the neutrophilic membrane protein PRV1 (Polycythemic Rubra Vera protein 1) and NB1 (also named HNA-2a) that are glycosyl-phosphatidylinositol (GPI) anchored proteins of 58-64 kDa. CD177 has two highly homologous cysteine-rich uPAR/Ly6 domains. The mRNA levels of CD177 is elevated under conditions where neutrophil counts are increased and is a useful marker for polycythemic vera. Mature human and mouse CD177 share 43% amino acid sequence identity. CD177 is expressed on the surface of neutrophils through a glycosylphosphatidylinositol (GPI) anchor (1-3).

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