

DESCRIPTION

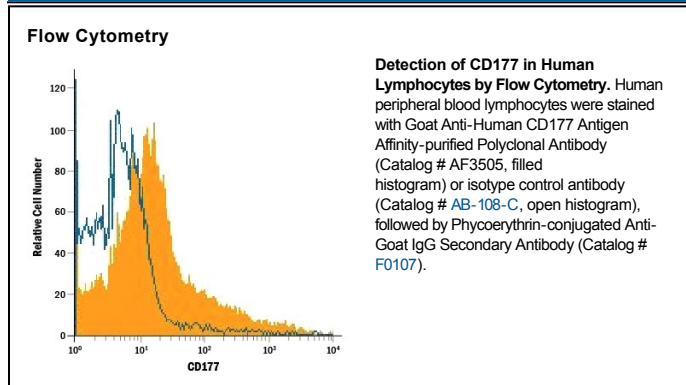
Species Reactivity	Human
Specificity	Detects human CD177 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CD177 Leu22-Gly407 Accession # AAH29167
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human CD177 (Catalog # 3505-CD)
Flow Cytometry	0.25 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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 (GP1) 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).

References:

1. Stroncek, D.F. (2007) *Curr. Opin. Hematol.* **14**:688.
2. Kissel, K. *et al.* (2001) *Eur. J. Immunol.* **31**:1301.
3. Temerinac, S. *et al.* (2000) *Blood* **95**:2569.