

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat CD34 in direct ELISAs and Western blots. In these formats, less than 1% cross-reactivity with recombinant porcine CD34 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat CD34 Glu37-Ile293 Accession # NP_001100672
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.

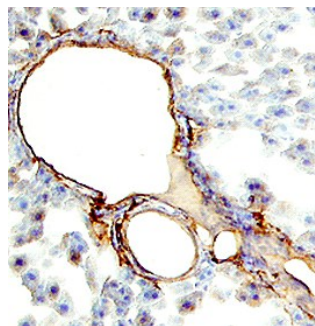
APPLICATIONS

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 Rat CD34
Immunohistochemistry	5-15 µg/mL	See Below

DATA

Immunohistochemistry



CD34 in Rat Liver. CD34 was detected in perfusion fixed frozen sections of rat liver using 15 µg/mL Rat CD34 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4117) overnight at 4 °C. Tissue was stained with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

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

Rat CD34 is a 80-100 kDa type I transmembrane glycoprotein that belongs to the CD34/Podocalyxin family of sialomucins. It is a widely used marker of activated hematopoietic stem/progenitor cells and is also expressed on adult vascular endothelial cells. Mature rat CD34 is predicted to be a 352 amino acid (aa) protein with a 257 aa extracellular domain (ECD) (aa 35-291) and 74 aa cytoplasmic tail (aa 313-386). Over the region used as immunogen, rat CD34 shares 83% and 57% aa identity with mouse and human CD34, respectively.