Porcine CD34 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3890

DESCRIPTION

Species Reactivity	Porcine
Specificity	Detects porcine CD34 in direct ELISAs and Western blots. In direct ELISAs, less than 20% cross-reactivity with recombinant rat CD34 is observed, and less than 5% cross-reactivity with recombinant mouse CD34 and recombinant human CD34 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant porcine CD34 Ala20-Thr294 (Thr32Ala, Ala52Thr, Pro71Ser, Val126Ala, His278Asn) Accession # NP_999251
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 Porcine CD34

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.** ● 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

CD34 is a 110 kDa type I transmembrane glycoprotein that belongs to the CD34/Podocalyxin family of sialomucin. It is a widely used marker of activated hematopoietic stem/progenitor cells and is also expressed on adult vascular endothelial cells. Porcine CD34 is 389 amino acids (aa) in length and is predicted to have a 272 aa extracellular domain (ECD) and a 73 aa cytoplasmic tail. An alternate 307 aa splice form with a 4 aa substitution for the C-terminal 61 amino acids also exists. Over aa 20-294, porcine CD34 shares 51%, 57% and 62% aa sequence identity with mouse, human, and canine CD34, respectively.