

DESCRIPTION

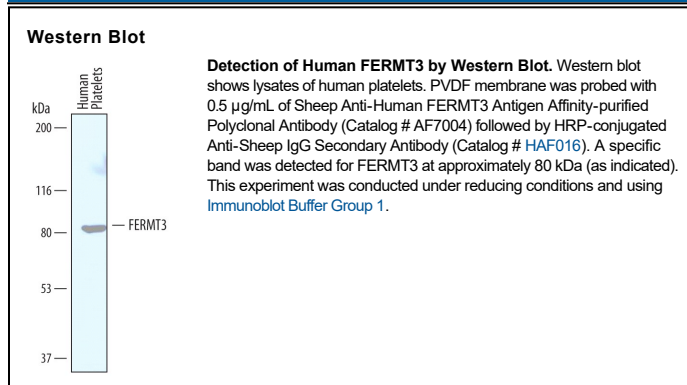
Species Reactivity	Human
Specificity	Detects human FERMT3 in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant human (rh) FERMT2 is observed and less than 1% cross-reactivity with rhFERMT1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human FERMT3 Ala498-Phe667 Accession # Q86UX7
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 either lyophilized or 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	0.5 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
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

FERMT3 (Fermitin family homolog 3; also kindling-3, MIG2B and URP2) is a 72-78 kDa member of the kindling family of proteins. It is a cytoplasmic protein that is expressed by B cells, T cells, platelets, neutrophils and vascular endothelial cells. FERMT3 acts on the cytoplasmic tails of β-integrins 1 thru 3 to induce a conformational change and activation. This allows for expressing cell adhesion and arrest. Human FERMT3 is 667 amino acids (aa) in length. It contains a poly-Lys region (aa 147-155) plus a FERM domain (aa 229-558) that itself possesses a membrane-anchoring Pleckstrin homology domain (aa 354-457). There are three utilized phosphorylation sites at Ser8, Tyr11 and Tyr504. There are also two splice variants. One is 56 kDa in size and represents the use of an alternative start site at Met181, while a second contains a deletion of aa 360-363. Over aa 498-667, human FERMT3 shares 99% aa identity with mouse FERMT3.