

DESCRIPTION

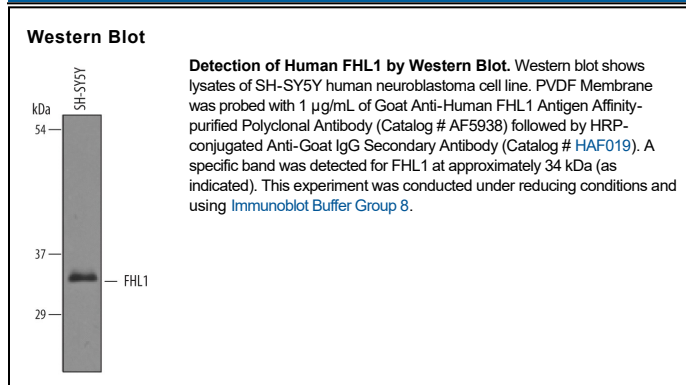
Species Reactivity	Human
Specificity	Detects human FHL1 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) FHL2 and rhFHL3 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human FHL1 Thr93-Asn166 Accession # Q13642
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	1 µg/mL	See Below

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

FHL1 (Four-and-a-half LIM domains protein 1; also SLIM1 and Kyoto1) is a 36 kDa member of the four-and-a half class of the LIM domain-only protein family. It is highly expressed in myocardium and skeletal muscle, and is now known to bind NFATc1, promoting muscle hypertrophy. It is also noted to be a RIP140 binding partner that inhibits estrogen receptor signaling. Human FHL1 is 323 amino acids (aa) in length. It contains one C4-type Zn-finger region (aa 7-31), three distinct LIM domains (aa 40-77; 101-158; 162-212) and a bipartite NLS (aa 231-246). There is one 32 kDa splice variant that shows a 50 aa substitution for aa 231-323. This creates a fourth LIM domain. There are also alternative start sites 29 aa and 16 aa upstream of the standard site, a deletion of aa 168-296, and an 11 aa substitution for aa 81-91. Over aa 93-166, human FHL1 is 97% aa identical to mouse FHL1.