

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | 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.                                                                                                             |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human FHL1<br>Thr93-Asn166<br>Accession # Q13642                                                                                                                                                                                        |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## 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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## BACKGROUND

FHL1 (Four-and-a-half LIM domains protein 1; also SLIM1 and KyoT1) 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.

## PRODUCT SPECIFIC NOTICES

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