

Product datasheet for **AM26238PU-N**

FHL2 Mouse Monoclonal Antibody [Clone ID: F4B2-B11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	F4B2-B11
Applications:	IF, IHC, WB
Recommended Dilution:	Immunohistochemistry on frozen and paraffin sections: The typical starting working dilution is 1:10. Immunofluorescence. Western blot: The typical starting working dilution is 1:10.
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	The monoclonal antibody F4B2-B11 reacts specifically with the LIM-only protein FHL2. It recognizes the N-terminal Zn-Finger motif, it does not cross react in Western Blot with the FHL1 and FHL3 proteins.
Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% bovine serum albumin Preservative: 0.02% sodium azide
Concentration:	lot specific
Purification:	Protein G
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C.
Stability:	Shelf life: one year from despatch.
Gene Name:	four and a half LIM domains 2
Database Link:	Entrez Gene 2274 Human Q14192



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Background:

Five proteins share the same structural organization and a high degree of sequence homology in this group: four and a half LIM domain protein (FHL) 1, FHL2, FHL3, FHL4, and activator of cAMP-responsive element (CRE) modulator (CREM) in testis (ACT). LIM domains are constituted by a conserved cysteine- and histidine-rich structure shaped in two repeated zinc fingers first identified in the proteins encoded by the Lin-11, Isl-1, and Mec-3 genes. The LIM domain has been shown to function as a protein-protein interaction domain, and has often been described in association with other functional protein motifs, such as homeobox and kinase domains. FHL2 seems to be a promiscuous coactivator because it modulates the activity of the androgen receptor, CRE-binding protein (CREB), and WT1, although some degree of specificity is present because it is unable to stimulate CREM- and Sp1-dependent transcription. FHL2 expression was originally described to be restricted to the heart but it is inducible in other cell types. FHL2 shows specific interaction with beta-catenin, which requires the intact structure of all four LIM domains of FHL2 and the N-terminus plus the first armadillo repeat region of beta-catenin. FHL2 is a muscle-specific repressor of LEF/TCF target genes and promotes myogenic differentiation by interacting with beta-catenin.

Synonyms:

FHL-2, SLIM 3, DRAL