

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LIMD1 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 919330
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human LIMD1 Met1-Val143 Accession # Q9UGP4
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*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.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	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

Human LIM Domain-containing Protein 1 (LIMD1) is a ubiquitous tumor suppressor 72 kDa protein which has three LIM zinc-binding domains. Via its LIM domains LIMD1 interacts with TRAF6, SNAI2/SLUG and SCRT1 (via SNAG domain) proteins. It also interacts with SQSTM1 and RB1, EIF4E, AGO1, AGO2, DCP2, DDX6, LATS1, LATS2, EGLN1/PHD2, EGLN2/PHD1 and EGLN3/PHD3 proteins. LIMD1 interacts with isoform 1 and isoform 3 of VHL and with SNAI1 proteins. LIMD1 localized predominantly in the cytoplasm but shuttles between cytoplasm and nucleus where it can be often detected: strong nuclear expression is indicative for a low-tumor grade and a better patient prognosis. Down-regulation of LIMD1 in the nuclei of neoplastic cells, is the indication for a poor prognosis of breast cancer. The correlation exists between LIMD1 and IRF4 in cell lines derived from lymphomas. In ulcerative epithelium it was found that LIMD1 has a reduced nuclear expression. LIMD1 is encoded at chromosome 3p21.3, a region which is deleted in many solid tumors and LIMD1 is down-regulated in the majority of human lung cancer samples. LIMD1 also is a regulator of both bone osteoclast and bone osteoblast development and function. Human LIMD1 shares 77% aa sequence identity with both rat and mouse LIMD1.

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