

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LIM1 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 320416
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human LIM1 Leu265-Trp406 Accession # P48742
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.
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

LIM homeobox 1 gene product (LIM1), also known as LHX-1, is a homeobox nuclear transcription factor expressed in human brain, thymus, tonsil and many myeloid leukemias. The 406 amino acid human LIM1 contains a LIM domain with twin zinc-binding sequences and a homeobox DNA-binding domain. The C-terminal sequence used as an immunogen is virtually identical between human and mouse LIM1. A truncated human isoform does not include this sequence. LIM1 activity is controlled by interaction with the ubiquitous nuclear adaptor protein Ldb-1 (Lim-domain-binding protein-1) which binds the LIM domain and mediates dimerization.

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