

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse CBL in Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 648005
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human CBL Asp775-Thr906 Accession # P22681
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.

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

CBL (Lake Casitas, California mouse B-lineage Lymphoma; also RING finger protein 55) is a 120-125 kDa cytosolic member of the CBL family of proteins. It is widely expressed, being found in cells such as fibroblasts, adipocytes, osteoclasts, podocytes and mammary epithelium. CBL negatively regulates RTK signaling by acting as an E3 ubiquitin ligase. Following activation via phosphorylation, CBL will interact with multiple signaling molecules such as Src, ZAP-70, EGFR and SHP1. Human CBL is 906 amino acids (aa) in length. It contains an N-terminal phosphoTyr-binding region that consists of one α -helix bundle, an EF hand segment, and an SH2 domain (aa 47-342), a RING finger domain that interacts with E2 enzymes (aa 381-423) a Pro-rich SH3 domain (aa 477-688), and a Leu-zipper/Ubiquitin-associated region (aa 861-892). There is one potential alternative start site at Met55. Over aa 775-906, human CBL shares 91% aa identity with mouse CBL.

PRODUCT SPECIFIC NOTICES

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