



Cbl (phospho Tyr700) Polyclonal Antibody

Catalog No	YP-Ab-03589
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	CBL
Immunogen	The antiserum was produced against synthesized peptide derived from human CBL around the phosphorylation site of Tyr700. AA range:666-715
Specificity	Phospho-Cbl (Y700) Polyclonal Antibody detects endogenous levels of Cbl protein only when phosphorylated at Y700.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	4732447J5Rik;C CBL;Cas Br M (murine) ecotropic retroviral transforming sequence;Casitas B lineage lymphoma proto oncogene;Casitas B-lineage lymphoma proto-oncogene;CBL 2;cbl;CBL_HUMAN;CBL2;E3 ubiquitin protein ligase CBL;E3 ubiquitin-protein ligase CBL;Oncogene CBL2;Proto oncogene c CBL;Proto-oncogene c-CBL;RGD1561386;RING finger protein 55;RNF55;Signal transduction protein CBL
Observed Band	120kD
Calculated Molecular Weight	120kD
Cell Pathway	Cytoplasm. Cell membrane. Cell projection, cilium . Golgi apparatus . Colocalizes with FGFR2 in lipid rafts at the cell membrane.
Tissue Specificity	Epithelium,T-cell,
Function	disease:Can be converted to an oncogenic protein by deletions or mutations that disturb its ability to down-regulate RTKs.,domain:The N-terminus is composed of the phosphotyrosine binding (PTB) domain, a short linker region and the RING-type zinc finger. The PTB domain, which is also called TKB (tyrosine kinase



binding) domain, is composed of three different subdomains: a four-helix bundle (4H), a calcium-binding EF hand and a divergent SH2 domain.,domain:The RING-type zinc finger domain mediates binding to an E2 ubiquitin-conjugating enzyme.,function:Participates in signal transduction in hematopoietic cells. Adapter protein that functions as a negative regulator of many signaling pathways that start from receptors at the cell surface. Acts as an E3 ubiquitin-protein ligase, which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, and then transfers it to substrates promo

Background

Cbl proto-oncogene(CBL) Homo sapiens This gene is a proto-oncogene that encodes a RING finger E3 ubiquitin ligase. The encoded protein is one of the enzymes required for targeting substrates for degradation by the proteasome. This protein mediates the transfer of ubiquitin from ubiquitin conjugating enzymes (E2) to specific substrates. This protein also contains an N-terminal phosphotyrosine binding domain that allows it to interact with numerous tyrosine-phosphorylated substrates and target them for proteasome degradation. As such it functions as a negative regulator of many signal transduction pathways. This gene has been found to be mutated or translocated in many cancers including acute myeloid leukaemia, and expansion of CGG repeats in the 5' UTR has been associated with Jacobsen syndrome. Mutations in this gene are also the cause of Noonan syndrome-like disorder. [provided by RefSeq, Jul 2016],

matters needing attention

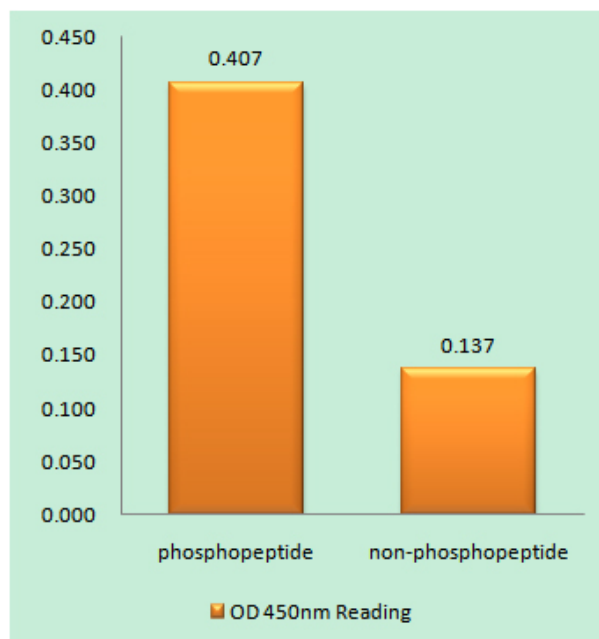
Avoid repeated freezing and thawing!

Usage suggestions

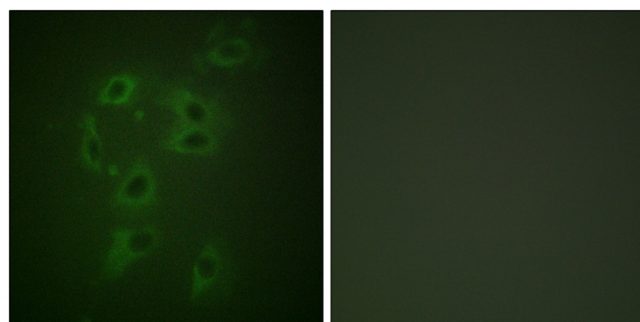
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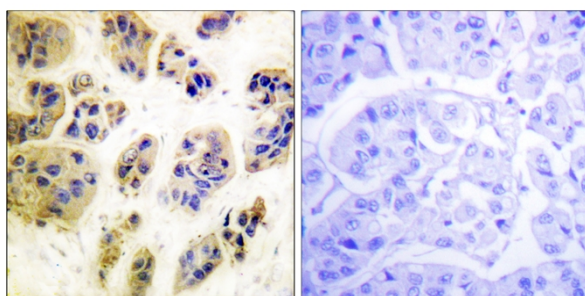
Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using CBL (Phospho-Tyr700) Antibody



Immunofluorescence analysis of HepG2 cells, using CBL (Phospho-Tyr700) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using CBL (Phospho-Tyr700) Antibody. The picture on the right is blocked with the phospho peptide.

CBL --
(pTyr700)

-- 130

-- 95

-- 72

-- 55

-- 34

(kD)

Western blot analysis of lysates from K562 cells treated with Na₃VO₄ 0.3nM, using CBL (Phospho-Tyr700) Antibody. The lane on the right is blocked with the phospho peptide.