


Product datasheet

Anti-CBL antibody ab59211

2 Images

Overview

<b>Product name</b>	Anti-CBL antibody
<b>Description</b>	Rabbit polyclonal to CBL
<b>Specificity</b>	ab59211 detects endogenous levels of total CBL protein.
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic non-phosphopeptide derived from human CBL around the phosphorylation site of tyrosine 700 (T-E-Y <sup>P</sup> -M-T).
<b>Positive control</b>	IHC-P: Human breast carcinoma tissue. WB: 293 cell extracts.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), 150mM Sodium chloride, pH 7.4
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab59211 was affinity purified from rabbit antiserum by affinity chromatography using epitope specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

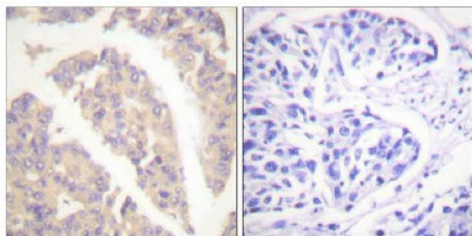
Applications

Our [Abpromise guarantee](#) covers the use of **ab59211** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		

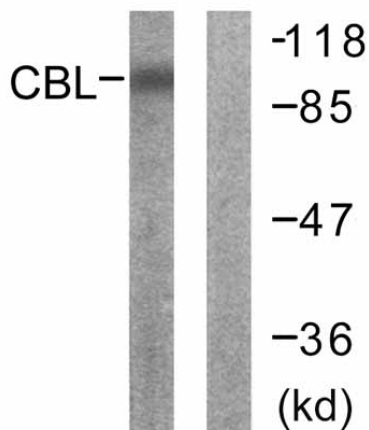
Application	Abreviews	Notes
IHC-P		
WB		
<b>Application notes</b>	<p>ELISA: 1/5000.  IHC-Paraffin: 1/50 - 1/100.  WB: 1/500 - 1/1000. Detects a band of approximately 110 kDa (predicted molecular weight: 99 kDa).</p> <p>Not yet tested in other applications.  Optimal dilutions/concentrations should be determined by the end user.</p>	
<b>Target</b>		
<b>Function</b>	<p>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 promoting their degradation by the proteasome. Recognizes activated receptor tyrosine kinases, including PDGFA, EGF and CSF1, and terminates signaling.</p>	
<b>Pathway</b>	<p>Protein modification; protein ubiquitination.</p>	
<b>Involvement in disease</b>	<p>Defects in CBL are the cause of Noonan syndrome-like disorder (NSL) [MIM:613563]. NSL is a syndrome characterized by a phenotype reminiscent of Noonan syndrome. Clinical features are highly variable, including facial dysmorphism, short neck, developmental delay, hyperextensible joints and thorax abnormalities with widely spaced nipples. The facial features consist of triangular face with hypertelorism, large low-set ears, ptosis, and flat nasal bridge. Some patients manifest cardiac defects.</p>	
<b>Sequence similarities</b>	<p>Contains 1 Cbl-PTB (Cbl-type phosphotyrosine-binding) domain.  Contains 1 RING-type zinc finger.  Contains 1 UBA domain.</p>	
<b>Domain</b>	<p>The RING-type zinc finger domain mediates binding to an E2 ubiquitin-conjugating enzyme. 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.</p>	
<b>Post-translational modifications</b>	<p>Phosphorylated on tyrosine residues by EGFR, SYK, FYN and ZAP70 (By similarity).  Phosphorylated on tyrosine residues by INSR.</p>	
<b>Cellular localization</b>	<p>Cytoplasm.</p>	
<b>Images</b>		



Peptide - +

Immunohistochemistry (Paraffin-embedded sections)  
- CBL antibody (ab59211)

ab59211, at 1/50 - 1/100 dilution, staining CBL in paraffin embedded human breast carcinoma tissue by Immunohistochemistry in the absence or presence of the immunising peptide.



Western blot - CBL antibody (ab59211)

**All lanes** : Anti-CBL antibody (ab59211) at 1/500 dilution

**Lane 1** : 293 cell extract

**Lane 2** : 293 cell extract with immunising peptide

**Predicted band size** : 99 kDa

**Observed band size** : 110 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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