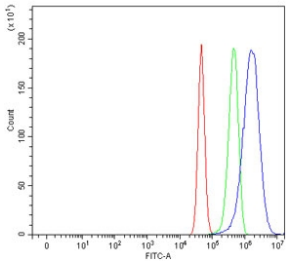
# CBL Antibody / Casitas B-lineage lymphoma proto-oncogene (RQ6954)

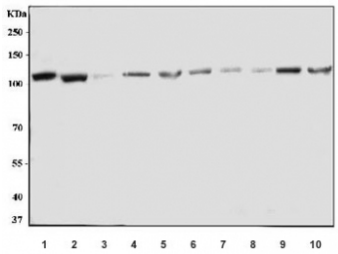
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ6954 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

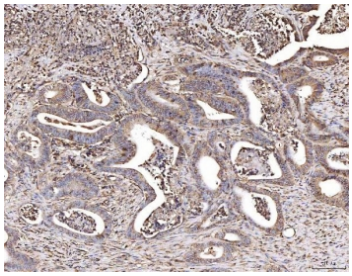
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | P22681 |
| **Localization** | Cell surface, cytoplasmic |
| **Applications** | Western blot: 0.5-1 ug/ml<br>Immunohistochemistry (FFPE): 2-5ug/ml<br>Flow cytometry: 1-3ug/million cells<br>Direct ELISA: 0.1-0.5ug/ml |
| **Limitations** | This CBL antibody is available for research use only. |




Flow cytometry testing of human U-87 MG cells with CBL antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CBL antibody.




Western blot testing of 1) human HL60, 2) human K562, 3) human A549, 4) human Raji, 5) human CCRF-CEM, 6) human Daudi, 7) human MCF7, 8) human HeLa, 9) rat testis and 10) mouse ANA-1 cell lysate with CBL antibody. Expected molecular weight: 100-120 kDa.



IHC staining of FFPE human colorectal cancer tissue with CBL antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

## Description

CBL (Cbl proto-oncogene) is also known as C-CBL, RNF55, CBL2 and E3 ubiquitin-protein ligase CBL. CBL is mapped to chromosome 11q23.3-qter by molecular characterization of the breakpoints in 2 somatic cell hybrids. 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. Mutations in this gene are also the cause of Noonan syndrome-like disorder.

## Application Notes

Optimal dilution of the CBL antibody should be determined by the researcher.

## Immunogen

Recombinant human protein (amino acids M470-E766) was used as the immunogen for the CBL antibody.

## Storage

After reconstitution, the CBL antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.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