Store at -200

Phospho-c-Cbl (Tyr731) Antibody



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| or Research Use Only. Not for Use in Diagnostic Procedures. | | | | | | |
|---|----------------------|--|-------------------------|-------------------|------------------------|-----------------------|
| Applications: WB | Reactivity: H | Sensitivity: Endogenous | MW (kDa): 120 | Source: Rabbit | UniProt ID: #P22681 | Entrez-Gene Id 867 |
| Product Usage Information | Ар | plication | | | Dilution | |
| | We | Western Blotting 1:1000 | | | | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody. | | | | |
| Specificity / Sens | | Phospho-c-Cbl (Tyr731) Antibody detects endogenous levels of c-Cbl only when phosphorylated at tyrosine 731. The antibody does not cross-react with related tyrosine-phosphorylated proteins. | | | | |
| Source / Purificat | to re | Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr731 of human c-Cbl. Antibodies are purified by protein A and peptide affinity chromatography. | | | | |
| Background | pred stim sign | The c-Cbl proto-oncogene is a ubiquitously expressed cytoplasmic adaptor protein that is especially predominant in hematopoietic cells (1,2). c-Cbl is rapidly tyrosine-phosphorylated in response to stimulation of a variety of cell-surface receptors and becomes associated with a number of intracellular signaling molecules such as protein tyrosine kinases, phosphatidylinositol-3 kinase, Crk, and 14-3-3 proteins (3,4). c-Cbl possesses a highly conserved amino-terminal phosphotyrosine binding domain (TKB) | | | | |

and a C3HC4 RING finger motif. The TKB recognizes phosphorylated tyrosines on activated receptor tyrosine kinases (RTKs) as well as other nonreceptor tyrosine kinases. The RING finger motif recruits ubiquitin-conjugating enzymes. These two domains are primarily responsible for the ubiquitin ligase activity of c-Cbl and downregulation of RTKs (3). Research studies have indicated that in human cancer tissues, c-Cbl is frequently tyrosine-phosphorylated in a tumor-specific manner (5). Phosphorylation of Tyr731 of c-Cbl provides a docking site for downstream signaling components such as p85 and Fyn (6).

Background References

- 1. Blake, T.J. et al. (1991) Oncogene 6, 653-657.
- 2. Thien, C.B. and Langdon, W.Y. (1998) Immunol. Cell Biol. 76, 473-482.
- 3. Christine, B.F. et al. (2001) Nat. Rev. Mol. Cell Biol. 2, 294-307.
- 4. Feshchenko, E.A. et al. (1998) J. Biol. Chem. 273, 8323-8331.
- 5. Kamei, T. et al. (2000) Int. J. Oncol. 17, 335-339.
- 6. Hunter, C. et al. (1999) J. Biol. Chem. 274, 2097-2106.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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