



CtBP1 (phospho Ser422) Polyclonal Antibody

Catalog No	BYab-01368
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	CTBP1
Protein Name	C-terminal-binding protein 1
Immunogen	The antiserum was produced against synthesized peptide derived from human CtBP1 around the phosphorylation site of Ser422. AA range:388-437
Specificity	Phospho-CtBP1 (S422) Polyclonal Antibody detects endogenous levels of CtBP1 protein only when phosphorylated at S422.
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	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CTBP1; CTBP; C-terminal-binding protein 1; CtBP1
Observed Band	48kD
Cell Pathway	Cytoplasm . Nucleus .
Tissue Specificity	Expressed in germinal center B-cells.
Function	cofactor:NAD. Required for efficient interaction with E1A. Cofactor binding induces a conformation change.,function:Involved in controlling the equilibrium between tubular and stacked structures in the Golgi complex (By similarity). Co-repressor targeting diverse transcription regulators such as GLIS2. Has dehydrogenase activity.,PTM:ADP-ribosylated; when cells are exposed to brefeldin-A (BFA).,PTM:Sumoylation on Lys-428 is promoted by the E3 SUMO-protein ligase CBX4.,PTM:The level of phosphorylation appears to be regulated during the cell cycle. Phosphorylated upon DNA damage, probably by ATM or ATR. Phosphorylation by HIPK2 on Ser-422 induces proteasomal degradation.,similarity:Belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family.,subunit:Interacts with the C-terminus of adenovirus E1A

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protein, ELK3 and CTIP via their consensus motif P-X-[DNS]-L-[STVA]. Can form homodimer

Background

This gene encodes a protein that binds to the C-terminus of adenovirus E1A proteins. This phosphoprotein is a transcriptional repressor and may play a role during cellular proliferation. This protein and the product of a second closely related gene, CTBP2, can dimerize. Both proteins can also interact with a polycomb group protein complex which participates in regulation of gene expression during development. Alternative splicing of transcripts from this gene results in multiple transcript variants. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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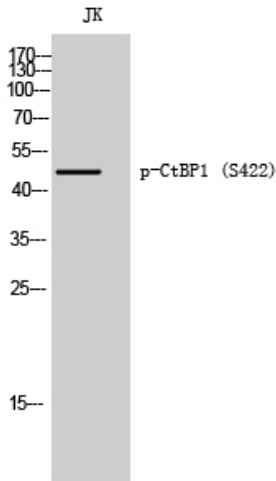
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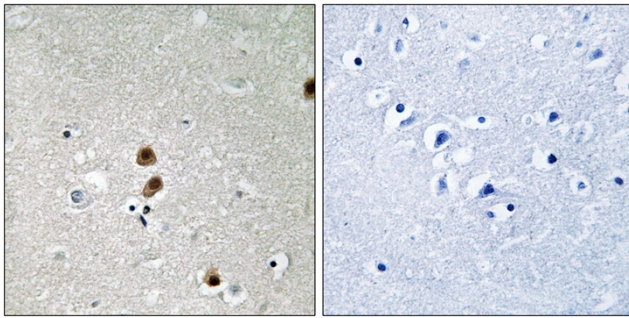
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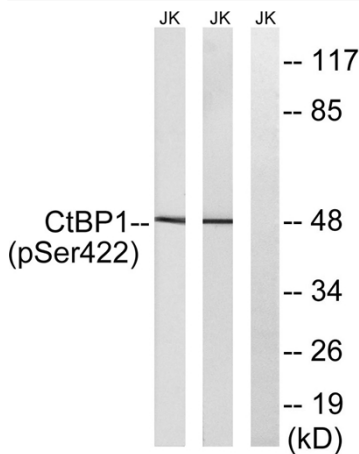
Products Images



Western Blot analysis of JK cells using Phospho-CtBP1 (S422) Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using CtBP1 (Phospho-Ser422) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells treated with TNF 20ng/ml 30' and Jurkat cells treated with UV 15', using CtBP1 (Phospho-Ser422) Antibody. The lane on the right is blocked with the phospho peptide.