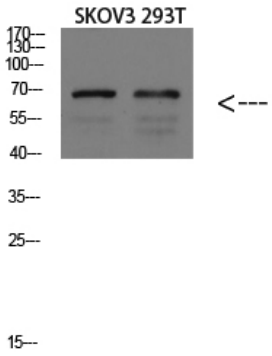
GADD34 Polyclonal Antibody

Catalog No	BYab-10652
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	PPP1R15A GADD34
Protein Name	Protein phosphatase 1 regulatory subunit 15A (Growth arrest and DNA damage-inducible protein GADD34) (Myeloid differentiation primary response protein MyD116 homolog)
Immunogen	Synthetic peptide from human protein at AA range: 430-490
Specificity	The antibody detects endogenous GADD34
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 1:500-2000, ELISA 1:10000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Protein phosphatase 1 regulatory subunit 15A (Growth arrest and DNA damage-inducible protein GADD34) (Myeloid differentiation primary response protein MyD116 homolog)
Observed Band	73kD
Cell Pathway	Endoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side . Mitochondrion outer membrane; Peripheral membrane protein; Cytoplasmic side . Associates with membranes via an N-terminal amphipathic intramembrane region. .
Tissue Specificity	Brain,
Function	function:Recruits the serine/threonine-protein phosphatase PP1 to dephosphorylate the translation initiation factor eIF-2A/EIF2S1, thereby reversing the shut-off of protein synthesis initiated by stress-inducible kinases and facilitating recovery of cells from stress. Down-regulates the TGF-beta signaling pathway by promoting dephosphorylation of TGFB1 by PP1. May promote apoptosis by inducing TP53 phosphorylation on 'Ser-15'.,induction:By methyl

	methanesulfonate and ionizing irradiation. By IL24 in melanoma cells; which induces apoptosis.,miscellaneous:The phosphatase activity of the PPP1R15A-PP1 complex toward EIF2S1 is specifically inhibited by Salubrinal, a drug that protects cells from endoplasmic reticulum stress.,PTM:Phosphorylated on tyrosine by LYN; which impairs its antiproliferative activity.,similarity:Belongs to the PPP1R15 family.,subunit:Interacts with PCNA (By similarity)
Background	This gene is a member of a group of genes whose transcript levels are increased following stressful growth arrest conditions and treatment with DNA-damaging agents. The induction of this gene by ionizing radiation occurs in certain cell lines regardless of p53 status, and its protein response is correlated with apoptosis following ionizing radiation. [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.

Products Images



Western blot analysis of MOUSE-BRAIN lysate, antibody was diluted at 1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000