

Rabbit GADD34 Polyclonal Antibody | anti-GADD34 antibody

GADD34 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322836	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

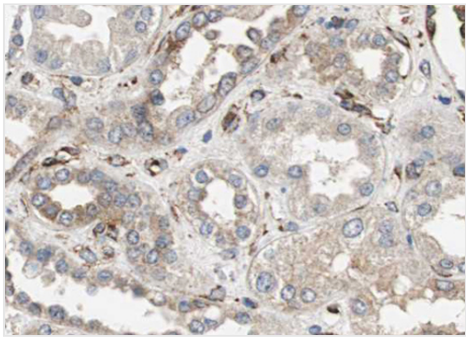
PRODUCT SYNONYMS

GADD34; Polyclonal Antibody; GADD34 Antibody; Apoptosis associated protein; GADD 34; Growth arrest and DNA damage inducible 34; Growth arrest and DNA damage-inducible protein GADD34; Myeloid differentiation primary response protein MyD116 homolog; Ppp1r15a; PR15A_HUMAN; Protein phosphatase 1 regulatory (inhibitor) subunit 15A; Protein phosphatase 1 regulatory subunit 15A; anti-GADD34 antibody

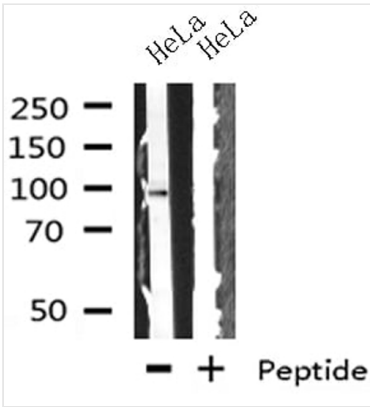
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GADD34 antibody detects endogenous levels of GADD34.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	674
Applicable Applications for anti-GADD34 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GADD34.
Subcellular Location	Endoplasmic Reticulum.
Tissue Specificity	By methyl methanesulfonate and ionizing irradiation. By IL24/interleukin-24 in melanoma cells; which induces apoptosis.
Predicted Cross Reactivity	Pig, Bovine, Horse, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Dog (86%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

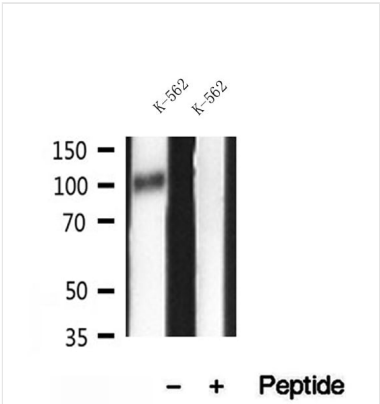
IMAGES



IHC (Immunohistochemistry)
AAA322836 at 1/100 staining human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis on HeLa cells lysate using GADD34 antibody



WB (Western Blot)
Western blot analysis of extracts of K-562 cells, using GADD34 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-GADD34 antibody

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'. Subunit Structure: Interacts with PCNA (By similarity). Interacts with LYN and KMT2A/MLL1. Interacts with PP1, PPP1R1A and SMARCB1. Interacts with SMAD7. Interacts with BAG1.

Post-translational Modifications: Phosphorylated at multiple Ser/Thr residues. Phosphorylated on tyrosine by LYN; which impairs its antiproliferative activity. Phosphorylation at Tyr-262 enhances proteasomal degradation, this position is dephosphorylated by PTPN2. Polyubiquitinated. Exhibits a rapid proteasomal degradation with a half-life under 1 hour, ubiquitination depends on endoplasmic reticulum association.

Similarity: Belongs to the PPP1R15 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	157674363
NCBI GeneID	23645
NCBI Accession #	NP_055145.3
NCBI GenBank Nucleotide #	NM_014330.3
UniProt Accession #	O75807; Q6IA96; Q9NVU6; B4DKQ3
Molecular Weight	Observed: 100 kDa Predicted: 74 kDa

NCBI Official Full Name	protein phosphatase 1 regulatory subunit 15A
NCBI Official Synonym Full Names	protein phosphatase 1 regulatory subunit 15A
NCBI Official Symbol	PPP1R15A
NCBI Official Synonym Symbols	GADD34
NCBI Protein Information	protein phosphatase 1 regulatory subunit 15A
UniProt Protein Name	Protein phosphatase 1 regulatory subunit 15A
UniProt Gene Name	PPP1R15A
UniProt Synonym Gene Names	GADD34

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gadd34-antibody-immunohistochemistry-western-blot-elisa/322836>