



HSP90 β (phospho Ser254) Polyclonal Antibody

Catalog No	BYab-03586
Isotype	IgG
Reactivity	Human;Mouse;Rat;Monkey
Applications	WB;IHC;IF;ELISA
Gene Name	HSP90AB1
Protein Name	Heat shock protein HSP 90-beta
Immunogen	The antiserum was produced against synthesized peptide derived from human HSP90B around the phosphorylation site of Ser254. AA range:226-275
Specificity	Phospho-HSP90 β (S254) Polyclonal Antibody detects endogenous levels of HSP90 β protein only when phosphorylated at S254.
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	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	HSP90AB1; HSP90B; HSPC2; HSPCB; Heat shock protein HSP 90-beta; HSP 90; Heat shock 84 kDa; HSP 84; HSP84
Observed Band	90kD
Cell Pathway	Cytoplasm . Melanosome . Nucleus . Secreted . Cell membrane . Dynein axonemal particle . Cell surface . Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:17081065). Translocates with BIRC2 from the nucleus to the cytoplasm during differentiation (PubMed:18239673). Secreted when associated with TGFB1 processed form (LAP) (PubMed:20599762). .
Tissue Specificity	Amygdala,Brain cortex,Colon,Colon carcinoma,Embryon
Function	function:Molecular chaperone. Has ATPase activity.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the heat shock protein 90 family.,subcellular location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,subunit:Homodimer. Interacts with TP53/p53 (By similarity). Interacts with UNC45A. Binding to UNC45A involves 2

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UNC45A monomers per HSP90AB1 dimer.,

Background

This gene encodes a member of the heat shock protein 90 family; these proteins are involved in signal transduction, protein folding and degradation and morphological evolution. This gene encodes the constitutive form of the cytosolic 90 kDa heat-shock protein and is thought to play a role in gastric apoptosis and inflammation. Alternative splicing results in multiple transcript variants. Pseudogenes have been identified on multiple chromosomes. [provided by RefSeq, Dec 2012],

matters needing attention

Avoid repeated freezing and thawing!

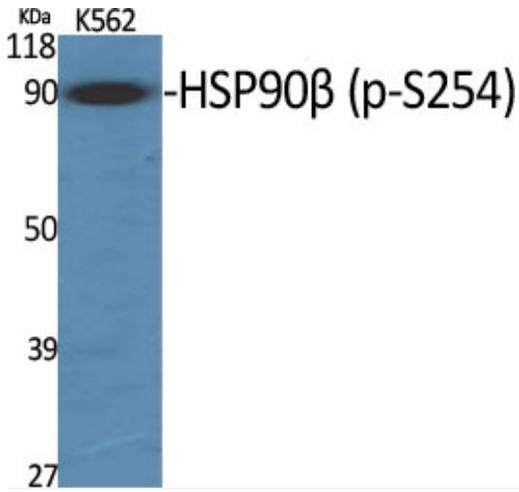
Usage suggestions

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

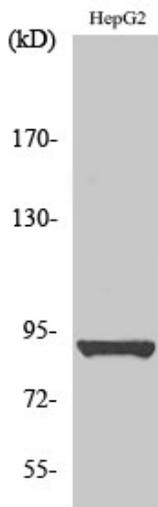
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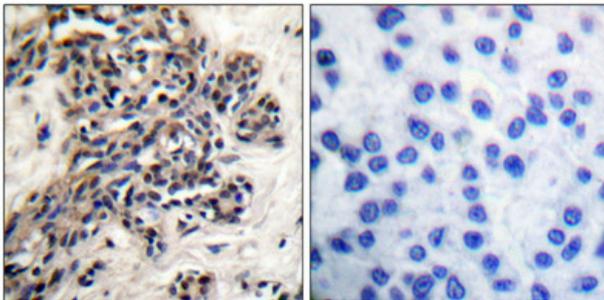
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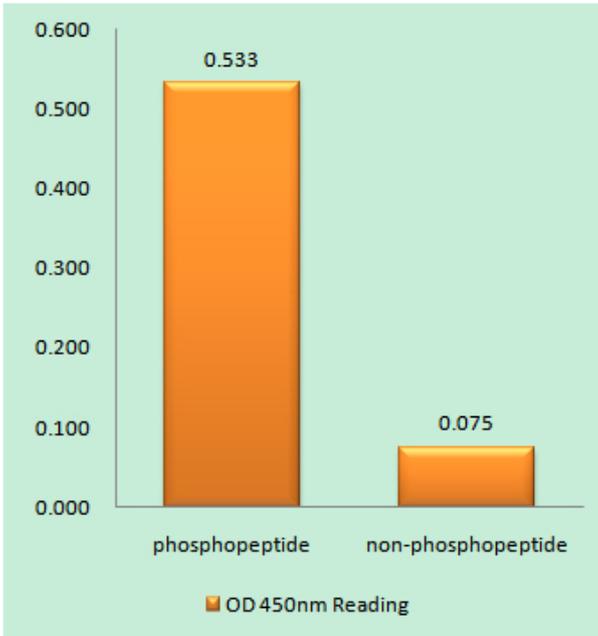
Western Blot analysis of various cells using Phospho-HSP90 β (S254) Polyclonal Antibody



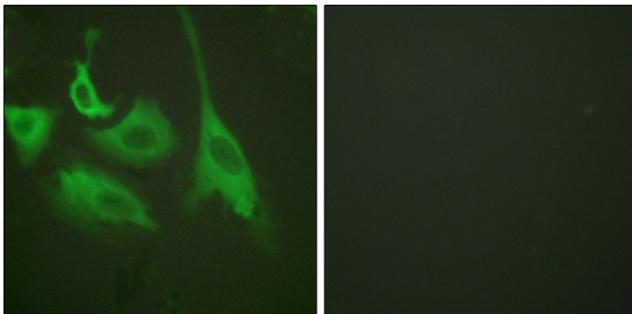
Western Blot analysis of HepG2 cells using Phospho-HSP90 β (S254) Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA, pH8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using HSP90B (Phospho-Ser254) Antibody



Immunofluorescence analysis of HeLa cells treated with TNF-a 20nM 15', using HSP90B (Phospho-Ser254) Antibody. The picture on the right is blocked with the phospho peptide.