Product Datasheet

Hsp60 Rabbit mAb

Catalog No: #52348

Package Size: #52348-1 50ul #52348-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

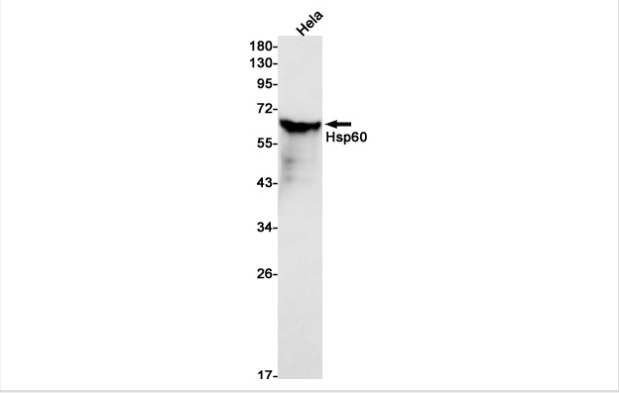
Description

Product Name	Hsp60 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S02-5B7
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB IHC
Species Reactivity	Human,Mouse,Rat
Immunogen Description	A synthetic peptide of human Hsp60
Conjugates	Unconjugated
Modification	Unmodification
Other Names	HLD4; CPN60; GROEL; HSP60; HSP65; SPG13; HSP-60; HuCHA60
Accession No.	Swiss-Prot:P10809GeneID:3329
Uniprot	P10809
GeneID	3329
Calculated MW	Calculated MW: 61 kDa; Observed MW: 60 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

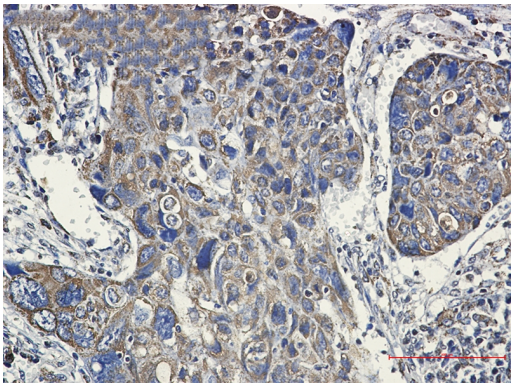
Application Details

WB: 1/2000; IHC: 1/50

Images



Western blot detection of Hsp60 in Hela cell lysates using Hsp60 Rabbit mAb(1:1000 diluted).Predicted band size:61kDa.Observed band size:60kDa.



Immunohistochemistry of Hsp60 in paraffin-embedded Human lung cancer tissue using Hsp60 Rabbit mAb at dilution 1/50

Background

Swiss-Prot Acc.P10809.Chaperonin implicated in mitochondrial protein import and macromolecular assembly. Together with Hsp10, facilitates the correct folding of imported proteins. May also prevent misfolding and promote the refolding and proper assembly of unfolded polypeptides generated under stress conditions in the mitochondrial matrix (PubMed:1346131, PubMed:11422376). The functional units of these chaperonins consist of heptameric rings of the large subunit Hsp60, which function as a back-to-back double ring. In a cyclic reaction, Hsp60 ring complexes bind one unfolded substrate protein per ring, followed by the binding of ATP and association with 2 heptameric rings of the co-chaperonin Hsp10. This leads to sequestration of the substrate protein in the inner cavity of Hsp60 where, for a certain period of time, it can fold undisturbed by other cell components. Synchronous hydrolysis of ATP in all Hsp60 subunits results in the dissociation of the chaperonin rings and the release of ADP and the folded substrate protein (Probable).

Note: This product is for in vitro research use only