



Rabbit Anti-HSPB2 antibody

SL4782R

Product Name:	HSPB2
Chinese Name:	热休克蛋白B2抗体
Alias:	DMPK-binding protein; Heat shock 27kD protein 2; Heat shock 27kDa protein 2; Heat shock protein beta-2; Heat-shock protein beta-2; Hs.78846; HSP27; HspB2; HSPB2_HUMAN; LOH11CR1K; MGC133245; MKBP.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	20kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HSPB2:101-182/182
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The heat shock proteins (HSPs) comprise a group of highly conserved, abundantly expressed proteins with diverse functions, including the assembly and sequestering of multi-protein complexes, transportation of nascent polypeptide chains across cellular membranes and regulation of protein folding. HSPB2 (heat shock 27 kDa protein 2), also known as HSP 27 or MKBP, is a 182 amino acid protein that belongs to the heat

shock protein family and is expressed preferentially in heart and skeletal muscle. Localized to mitochondria, HSPB2 functions as an ATP-dependent chaperone protein that plays a role in the refolding of denatured proteins and may also interact with the Actin cytoskeleton and prevent apoptotic cell death. HSPB2 is abundantly expressed in several cancer cell lines, suggesting that HSPB2 may be an important factor in tumor transformation and metastasis.

Function:

May regulate the kinase DMPK.

Subunit:

Interacts with DMPK; may enhance its kinase activity.

Subcellular Location:

Cytoplasm. Nucleus. Localizes to nuclear foci.

Tissue Specificity:

Expressed preferentially in skeletal muscle and heart.

Similarity:

Belongs to the small heat shock protein (HSP20) family.

SWISS:

Q16082

Gene ID:

3316

Database links:

[Entrez Gene: 3316](#) Human

[Entrez Gene: 69253](#) Mouse

[Entrez Gene: 161476](#) Rat

[Omim: 602179](#) Human

[SwissProt: Q16082](#) Human

[SwissProt: Q99PR8](#) Mouse

[SwissProt: O35878](#) Rat

[Unigene: 709660](#) Human

[Unigene: 1980](#) Mouse

[Unigene: 22486](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

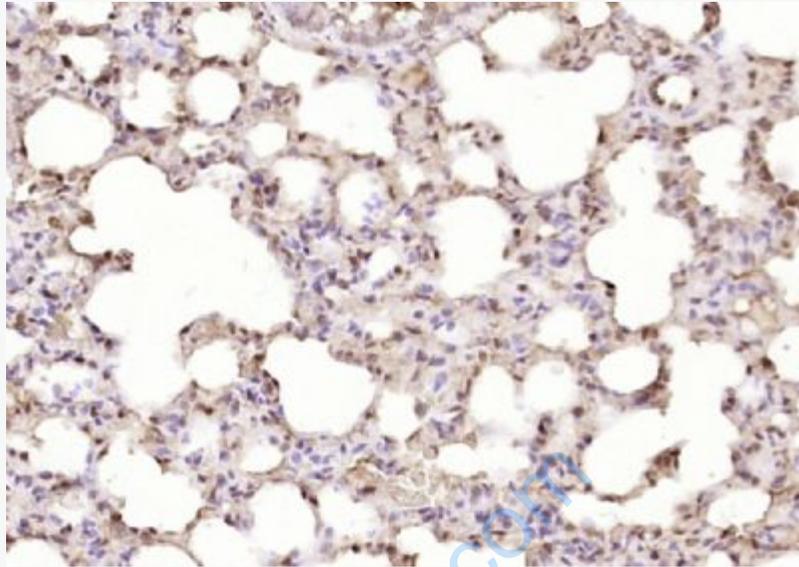


Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HSPB2) Polyclonal Antibody, Unconjugated (SL4782R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Picture:



Paraformaldehyde-fixed, paraffin embedded (rat heart tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HSPB2) Polyclonal Antibody, Unconjugated (SL4782R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat lung tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HSPB2) Polyclonal Antibody, Unconjugated (SL4782R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.