

HSPA2 Polyclonal Antibody | anti-HSPA2 antibody

Anti-HSPA2 Antibody

CATALOG # AAA46331	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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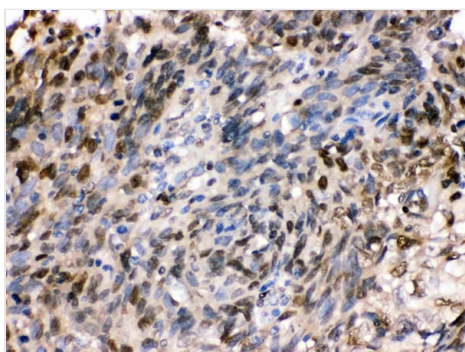
PRODUCT SYNONYMS

HSPA2; Polyclonal Antibody; Anti-HSPA2 Antibody; Heat shock-related 70 kDa protein 2; 70kDa; DAQB 147D11.1 001; Hcp70.2; Heat shock 70 kDa protein 2; heat shock 70kDa protein 1A; Heat shock protein 2; heat shock protein 70; Heat shock protein 70.2; Heat shock related 70 kDa protein 2; Heat-shock protein; 70-KD; 2; 3; HSP70 2; HSP70 3; Hsp70-2; HSP70-3; HSP70.2; HSP70A2; HSP72; HSP72_HUMAN; Hspt70; Hst70; MGC58299; MGC7795; MGC93458; OTTHUMP00000180664; Testis-specific heat shock protein-related; XXbac BCX40G17.3 001 antibody; heat shock 70kDa protein 2; anti-HSPA2 antibody

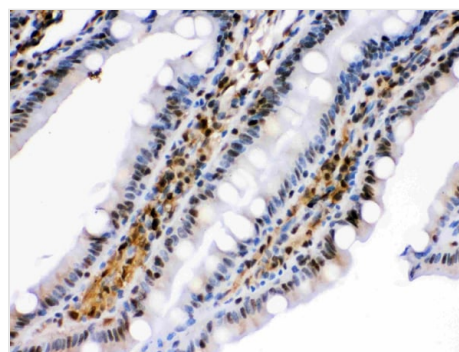
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	639
Applicable Applications for anti-HSPA2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human HSPA2 (564-598aa KISEQDKNKILDKQCQEVINWLDNRNQMAEKDEYEHK), identical to the related mouse and rat sequences.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

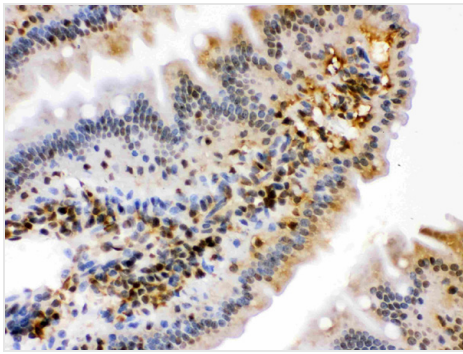
IMAGES



IHC (Immunohistochemistry)
Anti- HSPA2 Picoband antibody, AAA46331,IHC(P)IHC(P): Human Lung Cancer Tissue

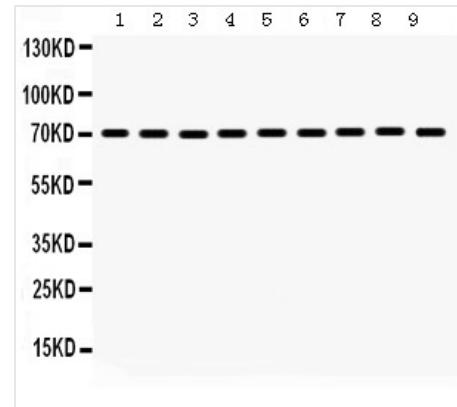


IHC (Immunohistochemistry)
Anti- HSPA2 Picoband antibody, AAA46331,IHC(P)IHC(P): Rat Intestine Tissue



IHC (Immunohistochemistry)

Anti- HSPA2 Picoband antibody, AAA46331, IHC(P) IHC(P): Mouse Intestine Tissue



WB (Western Blot)

Anti- HSPA2 Picoband antibody, AAA46331, Western blotting All lanes: Anti HSPA2 (AAA46331) at 0.5ug/ml Lane 1: Rat Liver Tissue Lysate at 50ug Lane 2: Rat Thymus Tissue Lysate at 50ug Lane 3: Rat Testis Tissue Lysate at 50ug Lane 4: Mouse Liver Tissue Lysate at 50ug Lane 5: Mouse Kidney Tissue Lysate at 50ug Lane 6: HELA Whole Cell Lysate at 40ug Lane 7: MCF-7 Whole Cell Lysate at 40ug Lane 8: A375 Whole Cell Lysate at 40ug Lane 9: NIH3T3 Whole Cell Lysate at 40ug Predicted bind size: 70KD Observed bind size: 70KD

ADDITIONAL INFORMATION

Related Product Information for anti-HSPA2 antibody

Description: Rabbit IgG polyclonal antibody for Heat shock-related 70 kDa protein 2(HSPA2) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Background: HSPA2 (heat shock 70kDa protein 2) is also known as HEAT-SHOCK PROTEIN, 70-KD, 2, HSP70-2, HEAT-SHOCK PROTEIN, 70-KD, 3 or HSP70-3. Analysis of the sequence indicated that HSPA2 is the human homolog of the murine Hsp70-2 gene, with 91.7% identity in the nucleotide coding sequence and 98.2% in the corresponding amino acid sequence. HSPA2 has less amino acid homology to the other members of the human HSP70 gene family. HSPA2 is constitutively expressed in most tissues, with very high levels in testis and skeletal muscle. The HSPA2 gene is located on chromosome 14q22-q24. Immunohistochemical analysis detected weak expression of HSPA2 in spermatocytes and stronger expression in spermatids and in the tail of mature sperm. HSPA2 may be critical to sperm maturation through its role as a protein chaperone.

References

1. Bonnycastle, L. L. C., Yu, C.-E., Hunt, C. R., Trask, B. J., Clancy, K. P., Weber, J. L., Patterson, D., Schellenberg, G. D. Cloning, sequencing, and mapping of the human chromosome 14 heat shock protein gene (HSPA2). Genomics 23: 85-93, 1994. 2. Dix, D. J., Allen, J. W., Collins, B. W., Mori, C., Nakamura, N., Poorman-Allen, P., Goulding, E. H., Eddy, E. M. Targeted gene disruption of Hsp70-2 results in failed meiosis, germ cell apoptosis, and male infertility. Proc. Nat. Acad. Sci. 93: 3264-3268, 1996. 3. Hunt, C. R., Gasser, D. L., Chaplin, D. D., Pierce, J. C., Kozak, C. A. Chromosomal localization of five murine HSP70 gene family members: Hsp70-1, Hsp70-2, Hsp70-3, Hsc70t and Grp78. Genomics 16: 193-198, 1993.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13676857
NCBI GeneID	3306
NCBI Accession #	NP_068814.2
NCBI GenBank Nucleotide #	NM_021979.3
UniProt Accession #	P54652 ; Q15508 ; Q53XM3 ; Q9UE78
Molecular Weight	70,021 Da
NCBI Official Full Name	heat shock-related 70 kDa protein 2
NCBI Official Synonym Full Names	heat shock protein family A (Hsp70) member 2
NCBI Official Symbol	HSPA2
NCBI Official Synonym Symbols	HSP70-2; HSP70-3

NCBI Protein Information	heat shock-related 70 kDa protein 2
UniProt Protein Name	Heat shock-related 70 kDa protein 2
UniProt Gene Name	HSPA2
UniProt Synonym Gene Names	Heat shock 70 kDa protein 2
UniProt Entry Name	HSP72_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/hspa2-antibody-immunohistochemistry-western-blot-elisa/46331>