

Datasheet for ABIN3043847
anti-HSP90AA1 antibody (AA 2-365)[Go to Product page](#)

7 Images

2 Publications

Overview

Quantity:	100 µg
Target:	HSP90AA1
Binding Specificity:	AA 2-365
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Heat shock protein HSP 90-alpha(HSP90AA1) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.
Immunogen:	E.coli-derived human Hsp90 recombinant protein (Position: P2-V365). Human Hsp90 shares 99% amino acid (aa) sequence identity with both mouse and rat Hsp90.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Heat shock protein HSP 90-alpha(HSP90AA1) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat. Gene Name: heat shock protein 90 kDa alpha (cytosolic), class A member 1 Protein Name: Heat shock protein HSP 90-alpha
Purification:	Immunogen affinity purified.

Target Details

Target:	HSP90AA1
Alternative Name:	HSP90AA1 (HSP90AA1 Products)
Background:	<p>Heat shock protein HSP 90-alpha is a protein that in humans is encoded by the HSP90AA1 gene. The gene, HSP90AA1, encodes the human stress-inducible 90- kDa heat shock protein alpha (Hsp90A). Complemented by the constitutively expressed paralog Hsp90B which shares over 85 % amino acid sequence identity, Hsp90A expression is initiated when a cell experiences proteotoxic stress. Once expressed Hsp90A dimers operate as molecular chaperones that bind and fold other proteins into their functional 3-dimensional structures. This molecular chaperoning ability of Hsp90A is driven by a cycle of structural rearrangements fueled by ATP hydrolysis. Current research on Hsp90A focuses in its role as a drug target due to its interaction with a large number of tumor promoting proteins and its role in cellular stress adaptation.</p> <p>Synonyms: D6S182 antibody FLJ26984 antibody FLJ31884 antibody Heat shock 86 kDa antibody heat shock 90 kDa protein 1 alpha antibody Heat shock protein 90 kDa alpha cytosolic class A member 1 antibody Heat shock protein 90 kDa alpha cytosolic class B member 1 antibody Heat shock protein HSP 90 alpha antibody Heat shock protein HSP 90 beta antibody Heat shock protein HSP 90-alpha antibody HS90A_HUMAN antibody HSP 84 antibody HSP 86 antibody Hsp 90 antibody HSP84 antibody HSP86 antibody Hsp89 antibody Hsp90 antibody HSP90 Beta antibody HSP90A antibody HSP90AA1 antibody HSP90AB1 antibody HSP90B antibody HSP90N antibody HSPC1 antibody HSPC2 antibody HSPCA antibody HSPCAL1 antibody HSPCAL4 antibody HSPCB antibody HSPN antibody LAP2 antibody Lipopolysaccharide associated protein2 antibody LPS associated protein 2 antibody NY REN 38 antigen antibody Renal carcinoma antigen NY-REN-38 antibody</p>
Gene ID:	3320
UniProt:	P07900
Pathways:	M Phase , Regulation of Cell Size , Signaling Events mediated by VEGFR1 and VEGFR2 , VEGFR1 Specific Signals

Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, The detection limit for Hsp90 is approximately 0.25 ng/lane under reducing conditions.</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the</p>
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Application Details

staining of formalin/paraffin sections.

ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human

Notes: Tested Species: Species with positive results. Other applications have not been tested.

Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and ICC.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in: Mao, Lu, Wang, Tian, Huang, Feng, Zhang, Chang: "Role of PI3K p110β in the differentiation of human embryonic stem cells into islet-like cells." in: **Biochemical and biophysical research communications**, Vol. 488, Issue 1, pp. 109-115, (2017) ([PubMed](#)).

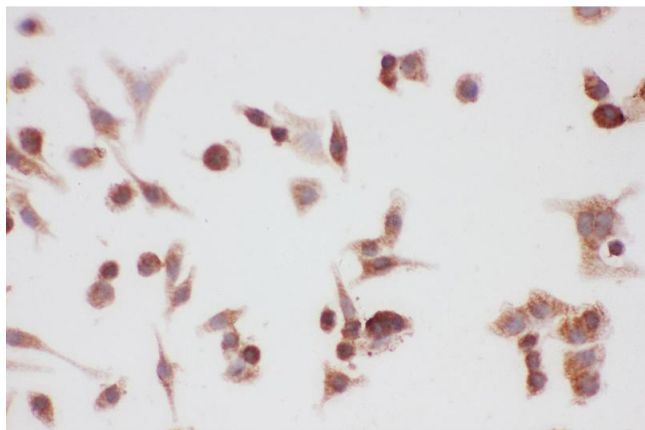
Wang, Zhou, Zhang, Wu, Zhang, Zhang: "Identification and localization of gastrointestinal hormones in the skin of the bullfrog *Rana catesbeiana* during periods of activity and hibernation." in: **Acta histochemica**, Vol. 116, Issue 8, pp. 1418-26, (2014) ([PubMed](#)).

Chen, He, Peng, Liu, Jin, Cao, Wang, Xiao: "An immunohistochemical study of somatostatin in the stomach and the small intestine of the African ostrich (*Struthio camelus*).\" in: **Tissue & cell**, Vol. 45, Issue 6, pp. 363-6, (2013) ([PubMed](#)).

Jiang, Deng, Duan, Chen, Xiang, Lu, Ma: "Somatostatin receptors SSTR2 and SSTR5 are expressed in the human thoracic duct.\" in: **Lymphology**, Vol. 44, Issue 1, pp. 21-8, (2011) ([PubMed](#)).

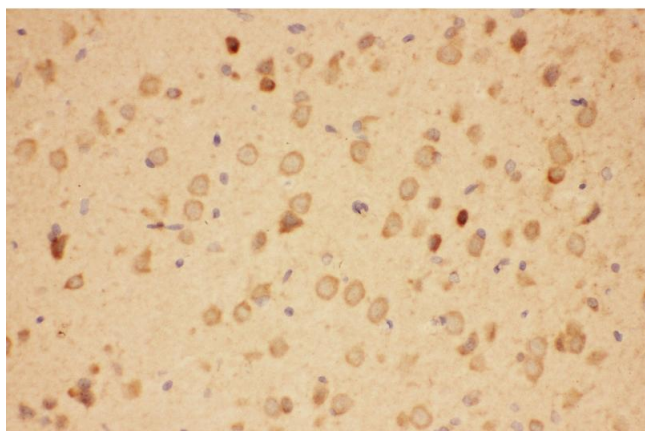
Zong, Chen, Zhang, Zou: "Effects of intra-gastric beta-casomorphin-7 on somatostatin and gastrin gene expression in rat gastric mucosa.\" in: **World journal of gastroenterology**, Vol. 13, Issue 14, pp. 2094-9, (2007) ([PubMed](#)).

Validation report #300031 for Immunohistochemistry (IHC)



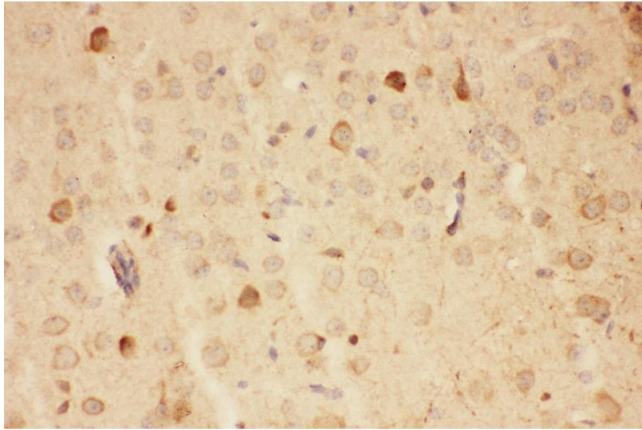
Immunohistochemistry

Image 1. Anti-Hsp90-alpha-Picoband antibody, ICC: A549 Cell



Immunohistochemistry

Image 2. Anti-Hsp90-alpha-Picoband antibody, IHC(P): Rat Brain Tissue



Immunohistochemistry

Image 3. Anti-Hsp90-alpha-Picoband antibody, IHC(P):
Mouse Brain Tissue

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN3043847.