

Datasheet for ABIN2481904
anti-HSPA4 antibody (Atto 390)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µg
Target:	HSPA4
Reactivity:	Hamster
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HSPA4 antibody is conjugated to Atto 390
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Synthetic peptide derived from the sequence of hamster HSP110, sequence identical to human and mouse
Specificity:	Detects ~110 kDa.
Cross-Reactivity:	Cow, Hamster, Human, Monkey, Mouse, Rat, Saccharomyces cerevisiae, Shark, Sheep
Purification:	Protein A Purified

Target Details

Target:	HSPA4
Alternative Name:	HSP110 (HSPA4 Products)
Background:	HSP110 belongs to a family of large stress proteins known as the HSP110/SSE Family. The proteins in this family are the most distantly known relatives of the well studied HSP70 family.

Target Details

They share 30-33 % amino acid identity, mostly in the conserved ATP-binding domain (1). HSP110 cooperates with HSP70 in protein folding in the eukaryotic cytosol (2). In mammals, HSP110 is constitutively expressed, but exhibits particularly high levels in the brain. Both HSP70 and HSP110 are elevated after cerebral ischemia. Recent studies demonstrate that the protective effects of HSP110 deficiency in cerebral ischemia may partly be mediated by an increase in the chaperone activity of HSP70 (3). Studies also suggest that HSP110 can be used in heat shock protein-based cancer immunotherapy (4).

Gene ID: 10808

NCBI Accession: [NP_006635](#)

UniProt: [Q92599](#)

Application Details

Application Notes:

- WB (1:1000)
- IHC (1:100)
- optimal dilutions for assays should be determined by the user.

Comment: 1 µg/ml of ABIN2481904 was sufficient for detection of HSP110 in 10 µg of human cell line mixed lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

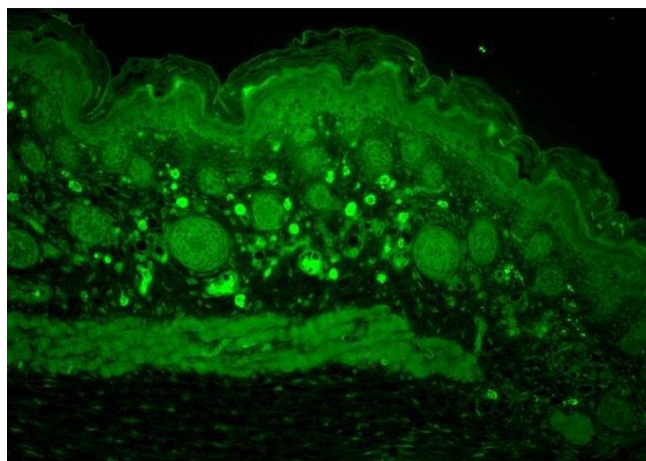
Buffer: PBS pH 7.2, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated

Preservative: Sodium azide

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

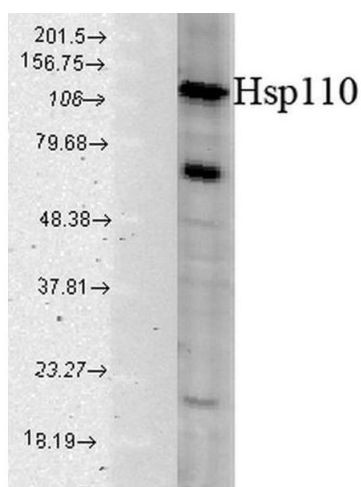
Storage: 4 °C

Storage Comment: Conjugated antibodies should be stored at 4°C



Immunohistochemistry

Image 1. Immunohistochemistry analysis using Rabbit Anti-HSP110 Polyclonal Antibody . Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative Solution. Primary Antibody: Rabbit Anti-HSP110 Polyclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:50 for 1 hour at RT. Localization: Positive epidermal, dermal and muscle staining.



Western Blotting

Image 2. Western blot analysis of Human Cell line lysates showing detection of HSP110 protein using Rabbit Anti-HSP110 Polyclonal Antibody . Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Rabbit Anti-HSP110 Polyclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Donkey Anti-Rabbit IgG: HRP for 1 hour at RT.