

Datasheet for 600-401-F52**Hsp110 Antibody****Overview**

Description:	Anti-HSP110 (RABBIT) Antibody - 600-401-F52
Item No.:	600-401-F52
Size:	100 µg
Applications:	IF, IHC, WB
Reactivity:	Human, Mouse, Rat, Bovine, Hamster, Monkey, Sheep, Yeast
Host Species:	Rabbit

Product Details

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. They share 30-33% amino acid identity, mostly in the conserved ATP-binding domain. Hsp110 cooperates with Hsp70 in protein folding in the eukaryotic cytosol. 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. Studies also suggest that Hsp110 can be used in heat shock protein-based cancer immunotherapy.
Synonyms:	Heat shock 105kDa alpha, heat shock 105kDa beta, Hsp105, Hsp105A, Hsp105B, Hsp110, HSPH1, NY CO 25, Heat shock 110 kDa protein
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	HSPH1
Reactivity:	Human, Mouse, Rat, Bovine, Hamster, Monkey, Sheep, Yeast
Immunogen Type:	Conjugated Peptide

Immunogen:	Hsp110 Antibody was produced from whole rabbit serum prepared by repeated immunizations raised against a synthetic peptide derived from the sequence of hamster Hsp110.
Purity/Specificity:	Anti-Hsp110 Antibody was purified by affinity chromatography. A BLAST analysis was used to suggest cross-reactivity with Hsp110 from Human, Monkey, Hamster, Rat, Mouse, Cow, Sheep, and Yeast based on 100% homology with the immunizing sequence. Cross-reactivity with Hsp110 from other sources has not been determined. Heat Shock research.
Relevant Links:	• NCBI - NP_001233649.1 • GeneID - 100689462 • UniProtKB - Q60446

Application Details

Tested Applications:	IF, IHC, WB
Application Note:	Anti-Hsp110 Antibody is tested for use in WB, IHC-P, and IF/ICC. Expect a band approximately ~110kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	User Optimized
IHC:	1:100
WB:	1:1000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

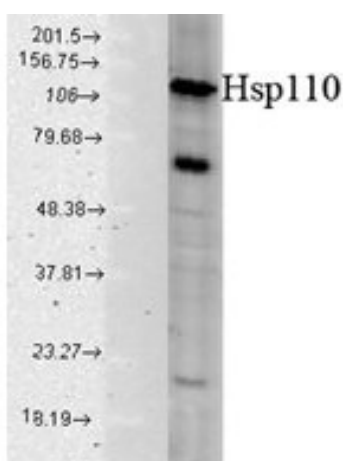
Shipping & Handling

Shipping Condition:	Wet Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of rabbit anti-Hsp110 antibody. Lane 1: human cell mix. Lane 2: none. Load: 35 µg per lane. Primary antibody: Hsp110 antibody at 1:1000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 96.9 kDa/~115 kDa for Hsp110. Other band(s): Hsp110 splice variant and isoform.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.