

ABfinity™ S100B Recombinant Rabbit Monoclonal Antibody

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Rev. 1.00

Catalog Number: 701340

Store at 2°C to 8°C (short-term), or -20°C (long-term)

Clonality: Monoclonal
Concentration: 0.5 mg/mL
Quantity: 100 µg
Volume: 200 µL

Host/Class: Rabbit IgG
Reactivity: Human S100B
Predicted Reactivity: Human

Product Description

S100 calcium binding protein B (S100B) belongs to the calcium-binding EF-hand (helix E-loop-helix F) protein family. S100B is present in the cytoplasm and nucleus of various cell types. It plays a role in intracellular Ca²⁺-dependent functions through regulation of calcium homeostasis, and transduction of intracellular Ca²⁺ signals. S100B is involved in the regulation of the cell cycle, differentiation, and apoptosis. It also is involved in cell motility through modulation of membrane-cytoskeletal interactions. In humans, the S100B gene is present at the 21q22 locus.

Product Specifications

Immunogen: Peptide corresponding to amino acids 18–40 of human S100B
Alternate Names: S100 Calcium-binding Protein B
Apparent MW: 9 kDa
Gene ID: 6285
Protein Accession No.: P04271
Sequence Identity: Human
Sequence Homology: Mouse, Rat, Monkey, Rabbit
Clone/PAD: 16H24L21
Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Rat	Brain lysate	2–3 µg/mL
Indirect ELISA	Human	Peptide	1.5 × 10 ⁻⁴ to 3 µg/mL

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

Storage and Handling

Store the antibody at 2°C to 8°C for up to 1 month, -20°C for long storage. Avoid repeated freezing and thawing.

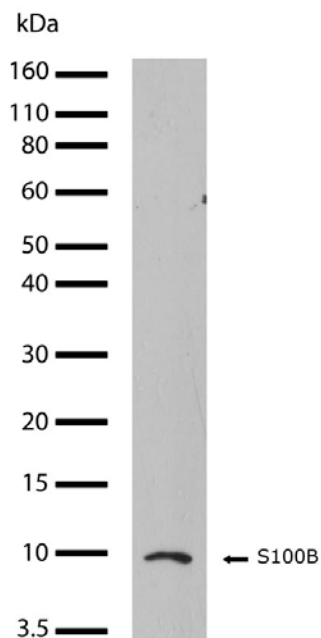


Figure 1 Western blot analysis of ABfinity™ S100B Recombinant Rabbit Monoclonal Antibody (Cat. no. 701340).

Western blot analysis was performed on rat brain lysates. Endogenous levels of S100B was detected at ~9 kDa using ABfinity™ S100B Recombinant Rabbit Monoclonal Antibody at a concentration of 2 µg/mL. The blot was developed using enhanced chemiluminescence (ECL) method.

Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

Caution: Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at www.lifetechnologies.com/support.

For research use only. Not for use in diagnostic procedures.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@lifetech.com

Product Documentation

To obtain a Certificate of Analysis or SDS, visit www.lifetechnologies.com/support.

Related Products

Product Name	Quantity	Catalog No.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106

Limited Product Warranty

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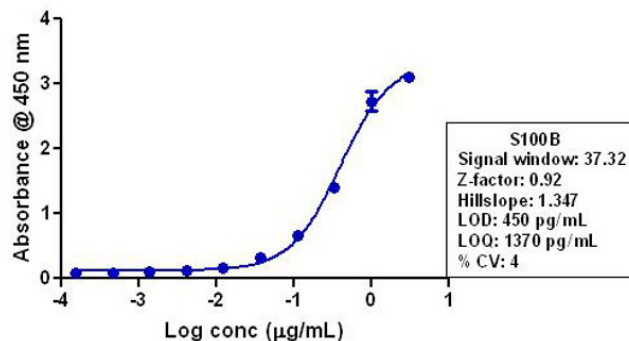


Figure 2 Indirect ELISA of ABfinity™ S100B Recombinant Rabbit Monoclonal Antibody (Cat. no. 710340).

Indirect ELISA was performed using various dilutions of ABfinity™ S100B Recombinant Rabbit Monoclonal Antibody to detect S100B peptide coated onto the plate. A non-linear regression analysis was performed (4 PL), and LOD and LOQ for the antibody was determined.

Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

Limited Use Label License No. 327: Recombinant Antibody Technology

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