novex®
by life technologies™

ABfinity™ sRAGE Recombinant Rabbit Monoclonal Antibody

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

Catalog Number: 701316

Pub. No. MAN0007432 **Rev.** 1.00

Clonality:	Monoclonal	**Quantity**:	100 µg	**Volume**: 200 µL	**Concentration**: 0.5 mg/mL
Host/Class:	Rabbit IgG	**Reactivity**:	Human sRAGE	**Predicted Reactivity**: Human	

Product Description

The receptor for advanced glycation end products (RAGE) is involved in eliciting oxidative stress, resulting in inflammatory and thrombogenic responses when activated by its ligand, advanced glycation end products (AGE). RAGE is encoded by the class III region of the major histocompatibility complex, which is expressed at sites of inflammation, particularly on inflammatory and epithelial cells. RAGE exists in either membrane bound or as a soluble form (sRAGE) lacking the transmembrane and intracytoplasmic domains. sRAGE also consists of alternate forms including endogenous secretory RAGE (esRAGE). These complexes can bind ligands like AGE and antagonize RAGE signalling.

Product Specifications

Immunogen: Recombinant protein corresponding to amino acids 23–342 of human sRAGE
Alternate Names: AGER
Apparent MW: ~ 32 kDa
Gene ID: 177
Protein Accession No.: Q15109
Sequence Identity: Human
Sequence Homology: Chimpanzee, Gorilla, Monkey, Horse, Pig
Clone/PAD: 17H19L10
Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	MDA-MB-231 cells	2–3 µg/ mL
Indirect ELISA	Human	Recombinant protein	1.5×10^{-4} to 3 µg/mL
Flow cytometry	Human	HeLa cells	1×10^{-6} cells to 1 µg/mL

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.

Stability

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

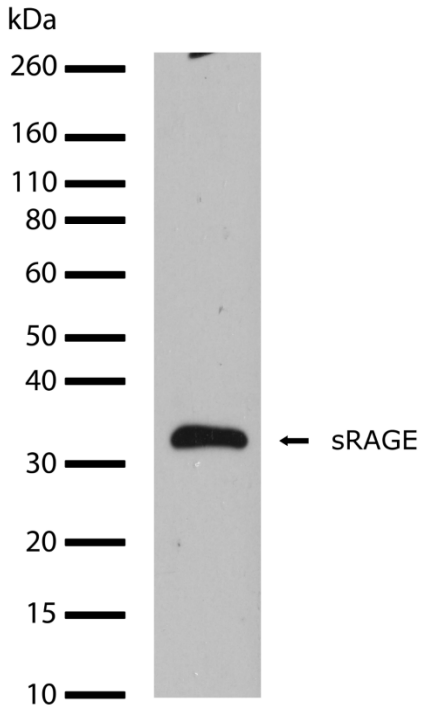

Figure 1 Western blot analysis of ABfinity™ sRAGE Recombinant Rabbit Monoclonal Antibody (Cat. no. 701316).

Western blot analysis was performed on whole cell extracts from MDA-MB-231 cells. Endogenous levels of sRAGE was detected at ~32 kDa using ABfinity™ sRAGE 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

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at **www.lifetechnologies.com/termsandconditions**. If you have any questions, please contact Life Technologies at **www.lifetechnologies.com/support**.

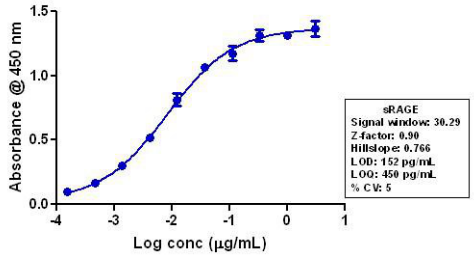

Figure 2 Indirect ELISA of ABfinity™ sRAGE Recombinant Rabbit Monoclonal Antibody (Cat. no. 701316).

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

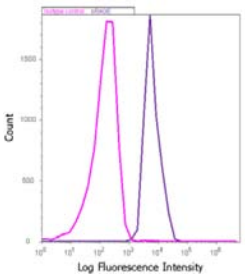

Figure 3 Flow cytometry analysis of HeLa cells labelled with ABfinity™ sRAGE Recombinant Rabbit Monoclonal Antibody (Cat. no. 701316).

Fixed and permeabilized HeLa cells were labeled with ABfinity™ sRAGE Recombinant Rabbit Monoclonal Antibody, followed by Alexa Fluor® 488 goat anti-rabbit IgG staining (right peak). To confirm specificity, the cells were labeled with an isotype control and stained using Alexa Fluor® 488 goat anti-rabbit IgG (left peak).

Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer	REF	Catalog number	LOT	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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