

## ABfinity™ sRAGE Recombinant Rabbit Oligoclonal Antibody

Publication Number: MAN0007190

Rev. 1.00

Catalog Number: 710339

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

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

**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 that results 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:** sRAGE  
**Apparent MW:** 32 kDa  
**Gene ID:** 177  
**Protein Accession No.:** Q15109  
**Sequence Identity:** Human  
**Sequence Homology:** Mouse, Rat, Monkey, Rabbit  
**Clone/PAD:** 17HCLC  
**Lot:** See product label

### Product Applications

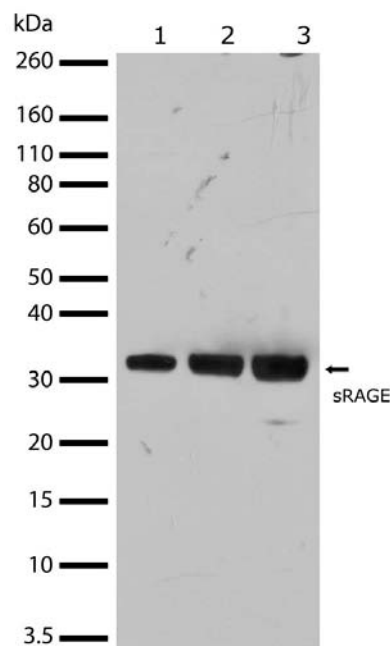
Application	Species	Test Material	Concentration
Western blotting	Human	HepG2, Jurkat, and MDAMB-231 cells	2–3 µg/mL
Indirect ELISA	Human	Recombinant protein	1.5 × 10 <sup>-4</sup> to 3 µg/mL
Flow cytometry	Human	HeLa cells	5 µg/mL

### 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™ sRAGE Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710339).

Western blot analysis was performed on whole cell extracts from HepG2 (lane 1), Jurkat (lane 2), and MDAMB-231 (lane 3) cells. Endogenous levels of sRAGE was detected at ~32 kDa using ABfinity™ sRAGE Recombinant Rabbit Oligoclonal 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](http://www.lifetechnologies.com/support).

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

## Product Documentation

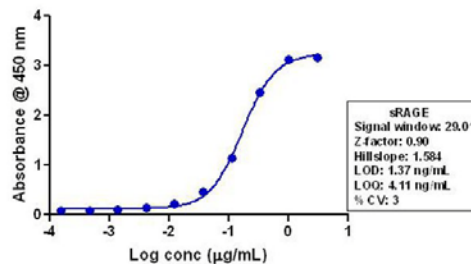
To obtain a Certificate of Analysis or SDS, visit [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

## 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

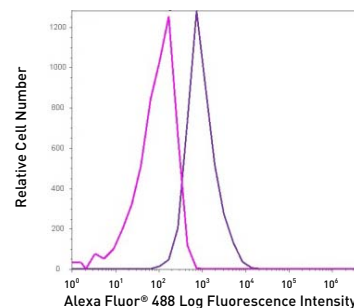
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**Figure 2** Indirect ELISA of ABfinity™ sRAGE Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710339).

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



**Figure 3** Flow cytometry analysis of HeLa cells labeled with ABfinity™ sRAGE Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710339).

Fixed and permeabilized HeLa cells that were stained with ABfinity™ sRAGE Recombinant Rabbit Oligoclonal Antibody, followed by Alexa Fluor® 488 goat anti-Rabbit Ig, are indicated by a peak shift (**right peak**). To confirm specificity, the cells were also stained with Alexa Fluor®488 without the sRAGE antibody (**left peak**).

## 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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15 September 2012

