



Soluble Advanced Glycation End Product-Specific Receptor (sRAGE) Human, Sheep Polyclonal Antibody

Product Data Sheet

Source of Antigen: *E. coli*

Host: Sheep

Cat. No.:

RD184116100 (0.1 mg)

Other names: Receptor for advanced glycosylation end product, AGER, RAGE

Research topic

Diabetology - Other Relevant Products, Neural tissue markers, Renal disease

Preparation

The antibody was raised in sheep by immunization with the recombinant Human sRAGE.

Amino Acid Sequence

The immunization antigen (36.5 kDa) is a protein containing 325 AA of recombinant Human sRAGE and 14 extra AA, N-terminal His-tag (highlighted).

MRGSHHHHHH **GM**ASAQNITA RIGEPLVLKC KGAPKKPPQR LEWKLNTGRT EAWKVLSPQG GGPWDSVARV LPNGSLFLPA
VGIQDEGIFR CQAMNRNGKE TKSNYRVRVY QIPGKPEIVD SASELTAGVP NKVGTCVSEG SYPAGTLSWH LDGKPLVPNE
KGVSVKEQTR RHPETGLFTL QSELMVTPAR GGDPRPTFSC SFSPGLPRHR ALRTAPIQPR VWEVPVLEEV QLVVEPEGGA
VAPGGTVTLT CEVPAQPSQ IHWMKDGVP LPLPPSVLIL PEIGPDQGT YSCVATHSSH GPQESRAVSI SIIEPGEEGP
TAGEGFDKVR EAEDSPQHM

Species Reactivity

Human

Not yet tested in other species.

Purification Method

Immunoaffinity chromatography on a column with immobilized recombinant Human sRAGE.

Antibody Content

0.1 mg (determined by BCA method, BSA was used as a standard)

Formulation

The antibody is lyophilized in 0.05 M phosphate buffer, 0.1 M NaCl, pH 7.2. **AZIDE FREE.**

Reconstitution

Add 0.1 ml of deionized water and let the lyophilized pellet dissolve completely. Slight turbidity may occur after reconstitution, which does not affect activity of the antibody. In this case clarify the solution by centrifugation.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage/Stability

The lyophilized antibody remains stable and fully active until the expiry date when stored at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles and store frozen at -80°C. Reconstituted antibody can be stored at 4°C for a limited period of time; it does not show decline in activity after one week at 4°C.

Expiration

See vial label.

Lot Number

See vial label.

Quality Control Test

Indirect ELISA - to determine titer of the antibody

SDS PAGE - to determine purity of the antibody

Applications

ELISA, Western blotting

Introduction to the Molecule

The receptor for advanced glycation end products (RAGE) is a multiligand member of the immunoglobulin superfamily of cell surface molecules. It mediates interactions of advanced glycation end products (AGE), the products of nonenzymatic glycoxidation of proteins/lipids that accumulate in the plasma and tissues of patients with diabetes.