

Product datasheet for **TA327041**

RAGE (AGER) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500-1:2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human AGER
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	advanced glycosylation end product-specific receptor
Database Link:	NP_001127 Entrez Gene 11596 Mouse Entrez Gene 81722 Rat Entrez Gene 177 Human Q15109



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Background:

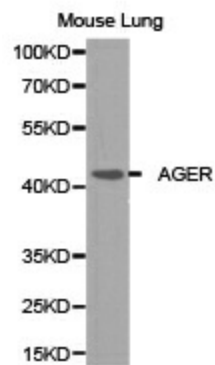
The receptor for advanced glycation end products (RAGE) is member of the immunoglobulin (Ig) superfamily. It can be expressed as full-length, membrane-bound RAGE isoform 1 or as a secreted sRAGE protein that lacks a transmembrane domain. RAGE is detected during early developmental stages and in the lung under normal physiological conditions and is upregulated at sites of inflammation. Advanced glycation end products (AGEs) and a variety of other ligands interact with this receptor. Ligand binding activates full-length RAGE and initiates downstream signaling pathways that include activation of NF- κ B, which leads to production of pro-inflammatory cytokines and inflammation. Activation of these pathways has been implicated in various disease states including Alzheimer disease, diabetes, arthritis, and atherosclerosis. Soluble RAGE can competitively bind RAGE ligands in the extracellular environment, which prevents ligand interaction with full-length RAGE at the cell surface.

Synonyms:

RAGE

Protein Families:

Druggable Genome, Secreted Protein, Transmembrane

Product images:

Western blot analysis of extracts of mouse lung cell line, using AGER antibody.