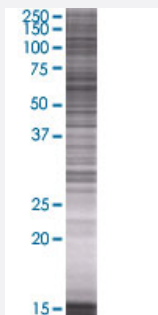


# RAG2 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00005897-T01

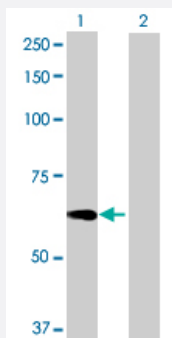
Size 100 uL

## Applications



### SDS-PAGE Gel

RAG2 transfected lysate.



### Western Blot

Lane 1: RAG2 transfected lysate ( 58.08 KDa)

Lane 2: Non-transfected lysate.

## Specification

|                               |                       |
|-------------------------------|-----------------------|
| Transfected Cell Line         | 293T                  |
| Plasmid                       | pCMV-RAG2 full-length |
| Host                          | Human                 |
| Theoretical MW (kDa)          | 58.08                 |
| Interspecies Antigen Sequence | Mouse (88); Rat (89)  |

**Quality Control Testing**

Transient overexpression cell lysate was tested with Anti-RAG2 antibody ([H00005897-B01](#)) by Western Blots.  
SDS-PAGE Gel  
RAG2 transfected lysate.  
Western Blot  
Lane 1: RAG2 transfected lysate ( 58.08 KDa)  
Lane 2: Non-transfected lysate.

**Storage Buffer**

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

**Storage Instruction**

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot

## Gene Info — RAG2

**Entrez GeneID**[5897](#)**GeneBank Accession#**[NM\\_000536.1](#)**Protein Accession#**[NP\\_000527.1](#)**Gene Name**

RAG2

**Gene Alias**

RAG-2

**Gene Description**

recombination activating gene 2

**Omim ID**[179616 601457 603554](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes a protein that is involved in the initiation of V(D)J recombination during B and T cell development. This protein forms a complex with the product of the adjacent recombination activating gene 1, and this complex can form double-strand breaks by cleaving DNA at conserved recombination signal sequences. The recombination activating gene 1 component is thought to contain most of the catalytic activity, while the N-terminal of the recombination activating gene 2 component is thought to form a six-bladed propeller in the active core that serves as a binding scaffold for the tight association of the complex with DNA. A C-terminal plant homeodomain finger-like motif in this protein is necessary for interactions with chromatin components, specifically with histone H3 that is trimethylated at lysine 4. Mutations in this gene cause Omenn syndrome, a form of severe combined immunodeficiency associated with autoimmune-like symptoms. [provided by RefSeq]

## Other Designations

V(D)J recombination-activating protein 2

## Pathway

- [Primary immunodeficiency](#)

## Disease

- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Immunologic Deficiency Syndromes](#)
- [Lymphoma](#)
- [Lymphopenia](#)
- [Lymphoproliferative Disorders](#)
- [Multiple Myeloma](#)
- [Occupational Diseases](#)
- [Severe combined immunodeficiency](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)