

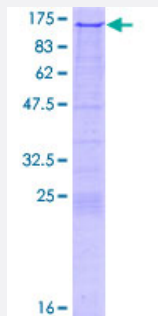
Full-Length

RAG1 (Human) Recombinant Protein (P01)

Catalog # H00005896-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human RAG1 full-length ORF (AAH37344.1, 1 a.a. - 931 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAASFPPTLGLSSAPDEIQHPHIKFSEWKFKLFRVRSFEKTPEEAQKEKKDSFEGKPSLEQSPA
VLDKADGQKPVPPTQPLLKAHPKFSKKFHDNEKARGKAIHQANLRHLCRICGNSFRADEHNRRYP
VHGPDGKTLGLLRKKEKRATSWPDLIAKVFRIDVKADVDSIHPTTEFCHNCWSIMHRKFSSAPCE
VYFPRNVTMEWHPHTPSCDICNTARRGLKRKSLQPNLQLSKKLKTVDQARQARQRKRAQARI
SSKDVMMKKIANCSKIHLSTKLLAVDFPEHFVKSISCQICEHILADPVETNCKHVFCRVCILRCLKVM
GSYCPSCRYPCFPTDLESPVKSFLSVLNSLMVKCPAKECNEEVSLKYNNHHSSHKESKEIFVHIN
KGGPRQRHLLSLTRRAQKHRLRELKLQVKAFADKEEGDVKSVCMTLFLALRARNEHRQADEL
EAIMQGGKSGSLQPAVCLAIRVNTFLSCSQYHKMYRTVKAITGRQIFQPLHALRNAEKVLLPGYHHFE
WQPPLKNVSSSTDVGIIIDGLSGLSSSVDDYPVDIAKRFYDSALVSALMDMEEDILEGMRSQDL
DDYLNPFVTVVVKESCDGMGDVSEKHGSGPVVPEKAVRFSFTIMKITAHSSQNVKVFEEAKPNS
ELCCKPLCLMLADESDHETLTALISPLIAEREAMKSSLMLELGGILRTFKFIFRGTYDEKLVREV
EGLEASGSVYICTLCDATRLEASQNLVFHSITRSHAENLERYEVWRSNPYHESVEELRDRVKGVS
AKPFIETVPSIDALHCDIGNAAEFYKIFQLEIGEYVKNPNASKEERKRWQATLDKHLRKKMNLKPIM
RMNGNFARKLMTKETVDVCELIPSEERHEALRELMPLYKMKPVWRSSCPAKECPESLCQYSF
NSQRFAELLSTKFKYRN

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

132.6

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — RAG1

Entrez GeneID	5896
GeneBank Accession#	BC037344.2
Protein Accession#	AAH37344.1
Gene Name	RAG1
Gene Alias	MGC43321, RNF74
Gene Description	recombination activating gene 1
Omim ID	179615 601457 603554 609889
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is involved in activation of immunoglobulin V-D-J recombination . The encoded protein is involved in recognition of the DNA substrate, but stable binding and cleavage activity also requires RAG2. Defects in this gene can be the cause of several diseases. [provided by RefSeq]
Other Designations	RING finger protein 74 V(D)J recombination-activating protein 1 recombination activating protein 1

Pathway

- [Primary immunodeficiency](#)

Disease

- [Adenocarcinoma](#)
- [Arthritis](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Immunologic Deficiency Syndromes](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Lymphopenia](#)
- [Lymphoproliferative Disorders](#)
- [Mouth Neoplasms](#)
- [Multiple Myeloma](#)
- [Neoplasms](#)
- [Occupational Diseases](#)
- [Precancerous Conditions](#)
- [Pulmonary Disease](#)

- [Severe combined immunodeficiency](#)
- [Urinary Bladder Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)