

Recombinant Full Length Human RAG2 Protein

Cat. No. RAG2-425HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human RAG2 with N terminal proprietary tag; Predicted MWt 84.04 kDa inclusive of tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	527 amino acids
Description	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.
Form	Liquid
Molecular Mass	84.04 kDa inclusive of tags

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AA Sequence

MSLQMVTVSNNIALIQPGFSLMNFDGQVFFFGQKGWPKRS CPTGVFHLDVKHNNHV
 KLKPTIFSKDSCYLPPLRYPATCTF KGSLESEKHQYIIHGGKTPNNEVSDKIYVMSIV
 CKNNKKV TFRCTEKDLVGDVPEARYGHSINVVYSRGKSMGALFGGRS YMPSTHR
 TTEKWNSVADCLPCVFLVDFEFGCATSYILPEL QDGLSFHVSIKNDTIYILGGHSLA
 NNIRPANLYRIRVDL PLGSPAVNCTVLPGGISVSSAILTQTNNDEFVIVGGYQLE NQK
 RMICNIISLEDNKIEIREMETPDWTPDIKHSKIWFGS NTGNGTVFLGIPGDNKQVVSE
 GFYFYMLKCAEDDTNEEQT TFTNSQTSTEDPGDSTPFEDSEEFCSAEANSFDGD
 DEFD TYNEDDEEDESSETGYWITCCPTCDVDINTWVPFYSTELNK PAMIYCSHGDG
 HWVHAQCMDLAERTLIHLSAGSNKYCYCNE HVEIARALHTPQRVLPLKKPPMKSLRK
 KGSGKILTPAKKS FLRRFLD

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION

Gene Name RAG2 recombination activating gene 2 [Homo sapiens]

Official Symbol RAG2

Synonyms RAG2; recombination activating gene 2; V(D)J recombination-activating protein 2

Gene ID 5897

mRNA Refseq NM_000536

Protein Refseq NP_000527

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MIM	179616
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UniProt ID	P55895
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