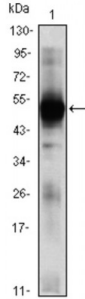


## Recombination Activating Gene 2 (RAG2) Antibody

Catalogue No.: abx012073



Western blot analysis using RAG2 antibody against RAG2 (AA: 350-527) -hlgGfc transfected HEK293 (1) cell lysate.

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.

<b>Target:</b>	RAG2
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Clonality:</b>	Monoclonal
<b>Tested Applications:</b>	ELISA, WB
<b>Recommended dilutions:</b>	ELISA: 1/10000, WB: 1/500 - 1/2000. Optimal dilutions/concentrations should be determined by the end user.
<b>Immunogen:</b>	Purified recombinant fragment of human RAG2 (350-527aa) expressed in E. Coli.
<b>Purification:</b>	Unpurified Ascites.
<b>Isotype:</b>	IgG <sub>1</sub>
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Aliquot and store at -20 °C. Avoid repeated freeze/thaw cycles.
<b>Molecular Weight:</b>	59 kDa

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<b>Swiss Prot:</b>	<a href="#">P55895</a>
<b>GeneID:</b>	<a href="#">5897</a>
<b>Gene Symbol:</b>	RAG2
<b>OMIM:</b>	<a href="#">179616</a>
<b>HGNC:</b>	9832
<b>Ensembl:</b>	ENSG00000175097
<b>Buffer:</b>	Ascitic fluid containing 0.03% sodium azide.
<b>Note:</b>	This product is for research use only.