

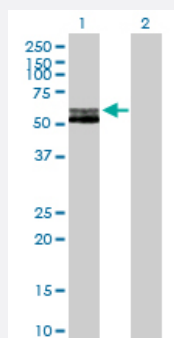
MaxPab®

RAG2 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00005897-B01P

Size 50 ug

Applications

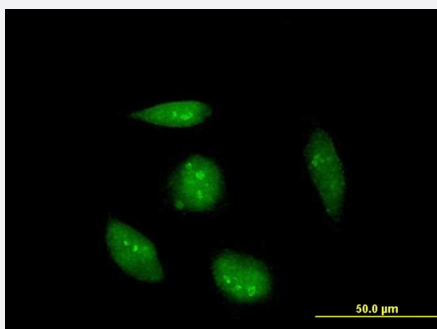


Western Blot (Transfected lysate)

Western Blot analysis of RAG2 expression in transfected 293T cell line ([H00005897-T01](#)) by RAG2 MaxPab polyclonal antibody.

Lane 1: RAG2 transfected lysate(57.97 KDa).

Lane 2: Non-transfected lysate.



Immunofluorescence

Immunofluorescence of purified MaxPab antibody to RAG2 on HeLa cell. [antibody concentration 10 ug/ml]

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human RAG2 protein.

Immunogen

RAG2 (NP_000527.1, 1 a.a. ~ 527 a.a) full-length human protein.

Sequence

MSLQMVTVSNNIALIQPGFSLMNFDDGQVFFFGQKGWPKRSCPTGVFHLDVKHNVKLKPTIFSKD
SCYLPPLRYPATCTFKGSLESEKHQYIIHGGKTPNNEVSDKIYVMSVCKNNKKVTRCTEKDLVGD
VPEARYGHSINVVYSRGKSMGALFGGRSYMPSTHRTTEKWNSVADCLPCVFLVDFFEGCATSYIL
PELQDGLSFHVSIKNDTIYLGHSLANNIRPANLYRIRVDLPLGSPAVNCTVLPGGISVSSAILTQT
NNDEFVIVGGYQLENQKRMICNIISLEDNKIEIREMETPDWTPDIKHSKWFGSNTGNGTVFLGIPGD
NKQVVSEGFYFYMLKCAEDDTNEEQTTFTNSQTSTEDPGDSTPFEDSEEFCSAEANSFDGDD
EFDTYNEDDEEDESSETGYWITCCPTCDVDINTWVPFYSTELNKPAMIYCSHGDGHVVAHQCMDL
AERTLIHLSAGSNKYCNEHVEIARALHTPQRVLPKPPMKSLRKKGSGKILTPAKKSFLRRLFD

Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (88); Rat (89)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

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[Protocol Download](#)

- Immunofluorescence

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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](#)