

[KO Validated] RAG2 polyclonal antibody

Catalog: BS65018

Host: Rabbit

Reactivity: Human, Mouse

Background:

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.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 59 kDa

Swiss-Prot:

P55895

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

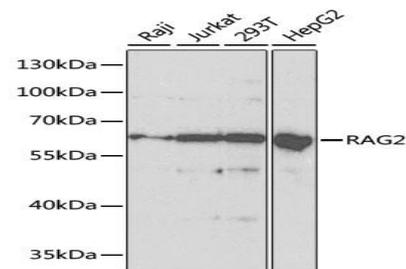
WB 1:500 - 1:2000
IF 1:50 - 1:200

Storage&Stability:

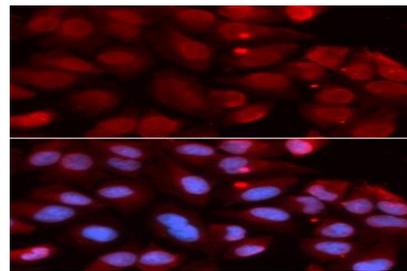
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

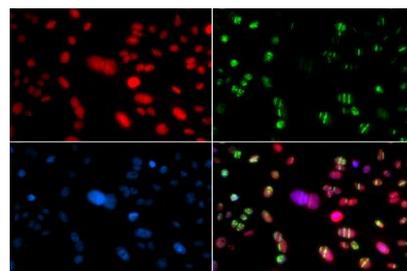
RAG2 polyclonal antibody detects endogenous levels of RAG2 protein.

DATA:

Western blot analysis of extracts of various cell lines, using RAG2 antibody at 1:1000 dilution.



Western blot analysis of extracts from normal (control) and RAG2 Rabbit pAb knockout (KO) 293T cells, using RAG2 Rabbit pAb antibody at 1:500 dilution.



Immunofluorescence analysis of U2OS cells using RAG2 antibody.

Blue: DAPI for nuclear staining.

Immunofluorescence analysis of GFP-RNF168 transgenic U2OS cells using RAG2 antibody. Green: GFP-RNF168 fusion protein expression for DNA damage marker. Blue: DAPI for nuclear staining. RNF168(GFP) can be used to mark cells damaged by UV-A laser for they always gather around DNA damage region.

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PRODUCT DATA SHEET

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Note:

For research use only, not for use in diagnostic procedure.

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