## [KO Validated] RAG2 Rabbit Polyclonal Antibody

**Protein Background** 

associated with autoimmune-like symptoms.

Immunogen information



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

## **CAB5626**

**Product Information** 

Size:

20uL, 50uL, 100uL, 200uL

**Observed MW:** 

59kDa

Calculated MW:

59kDa

**Applications:** 

WB IF

Reactivity:

Human, Mouse

Uniprot P55895

5897

Gene ID:

**Antibody Information** 

**Recommended dilutions:** WB 1:500 - 1:2000 IF 1:50 -

1:200

Source:

Rabbit

Isotype:

**Purification:** Affinity purification

IgG

Synonyms: RAG2; RAG-2

Immunogen:

Recombinant fusion protein containing a sequence corresponding to amino acids 258-527 of human RAG2 (NP\_001230715.1).

Storage:

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02%

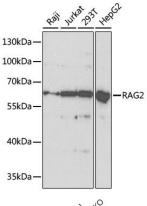
sodium azide, 50% glycerol, pH7.3.

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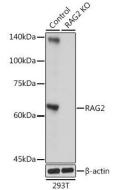
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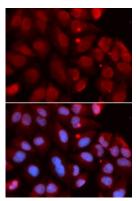
## **Product Images**



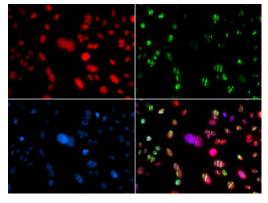
Western blot analysis of extracts of various cell lines, using RAG2 antibody (CAB5626) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 90s.



Western blot analysis of extracts from normal (control) and RAG2 Rabbit pAb knockout (KO) 293T cells, using RAG2 Rabbit pAb antibody (CAB5626) at 1:500 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 1s.



Immunofluorescence analysis of U2OS cells using RAG2 antibody (CAB5626). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of GFP-RNF168 transgenic U2OS cells using RAG2 antibody (CAB5626). 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.