

Datasheet for ABIN6146663  
**anti-RAG2 antibody (AA 258-527)**

## 3 Images

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## Overview

Quantity:	100 µL
Target:	RAG2
Binding Specificity:	AA 258-527
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RAG2 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 258-527 of human RAG2 (NP_001230715.1).
Sequence:	VSSAILTQTN NDEFVIVGGY QLENQKRMIC NIISLEDNKI EIREMETPDW TPDIKHSKIW FGSNMGNGTV FLGIPGDNKQ VVSEGFYFYM LKCAEDDTNE EQTTFTNSQT STEDPGDSTP FEDSEEFCS AEANSFDGDD EFDTYNEDDE EDESETGYWI TCCPTCDVDI NTWVPFYSTE LNKPAMIYCS HGDGHVWHAQ CMDLAERTLI HLSAGSNKYY CNEHVEIARA LHTPQRVLPL KKPPMKSLRK KGSGKILTPA KKSFLRRLFD
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Polyclonal Antibodies

## Target Details

Target:	RAG2
Alternative Name:	RAG2 ( <a href="#">RAG2 Products</a> )
Background:	<p>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.,RAG2,RAG-2,Epigenetics &amp; Nuclear Signaling,DNA Damage &amp; Repair,RAG2</p>
Molecular Weight:	59 kDa
Gene ID:	5897
UniProt:	<a href="#">P55895</a>
Pathways:	<a href="#">Chromatin Binding</a> , <a href="#">Production of Molecular Mediator of Immune Response</a>

## Application Details

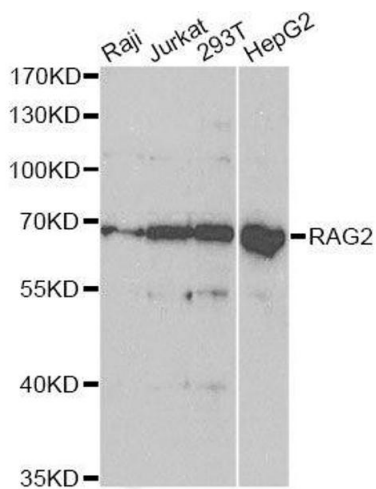
Application Notes:	WB,1:500 - 1:2000
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

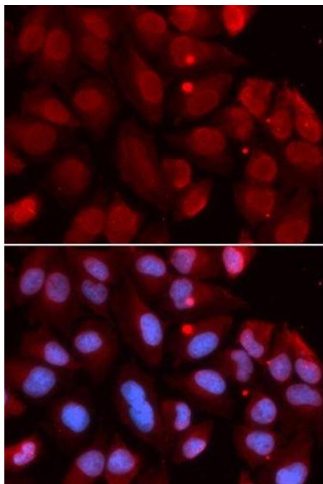
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



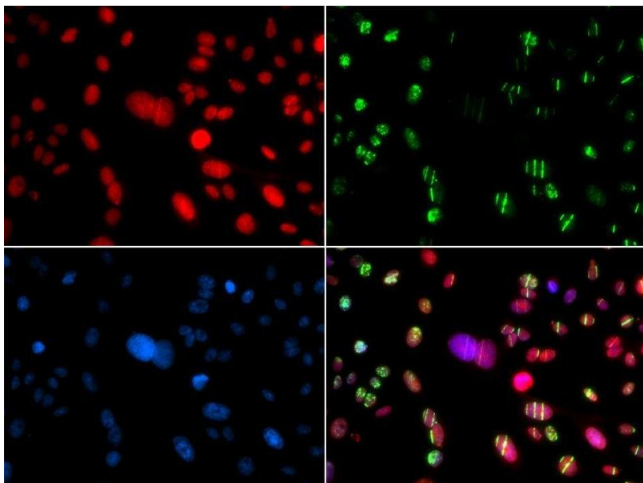
Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using RAG2 antibody.



Immunofluorescence

**Image 2.** Immunofluorescence analysis of U2OS cells using RAG2 antibody.



Immunofluorescence

**Image 3.** Immunofluorescence analysis of GFP-RNF168 transgenic U2OS cells using RAG2 antibody.