

RAG2 Polyclonal Antibody

Catalog number: 11825-1-AP

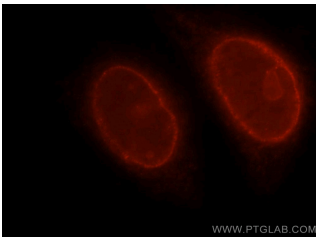
Size: 20 µg/150 µl

Source: Rabbit

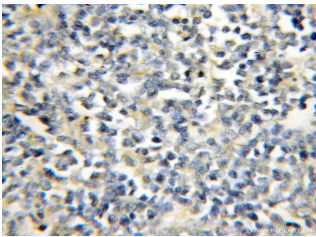
Isotype: IgG

Synonyms:

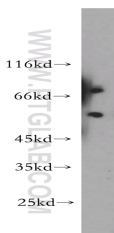
RAG2; RAG 2, RAG2



Immunofluorescent analysis of HeLa cells, using RAG2 antibody 11825-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Immunohistochemical of paraffin-embedded human lymphoma using 11825-1-AP (RAG2 antibody) at dilution of 1:50 (under 10x lens)



A375 cells were subjected to SDS PAGE followed by western blot with 11825-1-AP (RAG2 antibody) at dilution of 1:300

Background

Recombination activating gene 2 (RAG2) is core part of the RAG complex (RAG1 and RAG2), which mediates the DNA cleavage phase during V(D)J recombination. The RAG complex also plays a role in pre-B cell allelic exclusion, a process leading to expression of a single immunoglobulin heavy chain allele to enforce clonality and monospecific recognition by the B-cell antigen receptor (BCR) expressed on individual B-lymphocytes. The introduction of DNA breaks by the RAG complex on one immunoglobulin allele induces ATM-dependent repositioning of the other allele to pericentromeric heterochromatin, preventing accessibility to the RAG complex and recombination of the second allele. In the RAG complex, RAG2 is not the catalytic component but is required for all known catalytic activities mediated by RAG1. It probably acts as a sensor of chromatin state that recruits the RAG complex to H3K4me3

Applications

Tested applications:	ELISA, WB, IHC, IF, FC, IP
Cited applications:	WB
Species specificity:	Human, Mouse; other species not tested.
Cited species:	Mouse
Calculated RAG2 MW:	527aa, 59 kDa
Observed RAG2 MW:	57-62 kDa
Positive WB detected in	A375 cells, mouse thymus tissue
Positive IP detected in	A375 cells
Positive IHC detected in	Human lymphoma tissue
Positive IF detected in	HeLa cells
Positive FC detected in	HeLa cells
Recommended dilution:	WB: 1:200-1:1000
	IP: 1:200-1:1000
	IHC: 1:20-1:200
	IF: 1:10-1:100
	FC: N/A

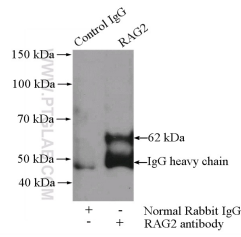
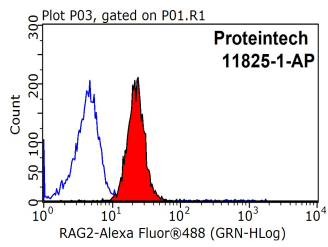
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag2393
GenBank accession number:	BC022397
Gene ID (NCBI):	5897
Full name:	Recombination activating gene 2

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



1X10⁶ HeLa cells were stained with 0.2ug RAG2 antibody (11825-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.

IP Result of anti-RAG2 (IP:11825-1-AP, 4ug; Detection:11825-1-AP 1:300) with A375 cells lysate 3600ug.