

Recombinant

DGRmAb®

RAG2 (DGR15242) Rabbit mAb

db15105

Package : 10µL 20µL 50µL 100µL

Product Name : RAG2 (DGR15242) Rabbit mAb**Cat.No.:** db15105**Synonyms :** Rag-2**Application :** WB**Reactivity :** Mouse**Host species :** Rabbit**Background**

Core component of the RAG complex, a multiprotein complex that mediates the DNA cleavage phase during V(D)J recombination. V(D)J recombination assembles a diverse repertoire of immunoglobulin and T-cell receptor genes in developing B and T-lymphocytes through rearrangement of different V (variable), in some cases D (diversity), and J (joining) gene segments. DNA cleavage by the RAG complex occurs in 2 steps: a first nick is introduced in the top strand immediately upstream of the heptamer, generating a 3'-hydroxyl group that can attack the phosphodiester bond on the opposite strand in a direct transesterification reaction, thereby creating 4 DNA ends: 2 hairpin coding ends and 2 blunt, 5'-phosphorylated ends. The chromatin structure plays an essential role in the V(D)J recombination reactions and the presence of histone H3 trimethylated at 'Lys-4' (H3K4me3) stimulates both the nicking and hairpinning steps.

Immunogen

A synthetic peptide of mouse RAG2

Gene ID

19374

Swiss Prot

P21784

Synonyms

Rag-2

Reactivity

Mouse

Application

WB

Recommended dilution

WB: 1:1000-1:5000

Calculated MW

59 kDa

Observed MW

59 kDa

Host species

Rabbit

Clonality

Monoclonal

Clonality No.

DGR15242

Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.