



A Reliable Research Partner in Life Science and Medicine

Recombinant RAG2 Monoclonal Antibody

catalog number: AN301647L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Human; Mouse

Immunogen Recombinant human RAG2 fragment

Host Rabbit Isotype lgG, κ Clone A350

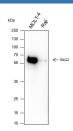
Purification Protein Apurified

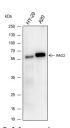
Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications Recommended Dilution

1:1000-1:10000 **WB**

Data





Western Blot with RAG2 Monoclonal Antibody at dilution of Western Blot with RAG2 Monoclonal Antibody at dilution of 1:1000. Lane 1: HT-29, Lane 2: A20

1:10000. Lane 1: MOLT-4, Lane 2: Raji

Observed-MW:62 kDa Calculated-MW:62 kDa

Observed-MW:62 kDa Calculated-MW:62 kDa

Preparation & Storage

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping Ice bag

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 haipinning steps.

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