
RNAse H2A Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 254005

Unit: 0.1 mg

Description:

Ribonucleases (RNases) H are enzymes that hydrolyze the RNA strands of RNA/DNA hybrids. The major role of these enzymes is to remove the RNA strand from the RNA/DNA hybrids that form during DNA replication and repair. RNAse H2 is made up of three subunits; all three are required for RNAse activity. Recent evidence has demonstrated that mutations in RNAse H2A or any of the other subunits result in Aicardi-Goutieres syndrome (AGS), a neurological disorder with similar symptoms to viral brain infections including high levels of IFN-alpha in the cerebral spinal fluid. Similar conditions are observed with mutations in TREX1, a single-stranded DNA exonuclease, suggesting that RNAse H2 and TREX1 may have similar roles, and that mutations in any of these genes lead to an accumulation of intracellular nucleic acids, triggering an inflammatory response through activation of the innate immune system.

Isotype: Rabbit Ig

Applications: E, WB, ICC

Species Reactivity: H, M, R

Format: Each vial contains 0.1 ml IgG in PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by immunogen affinity chromatography.

Alternate Names: Rnse H2A; Ribonuclease H2 subunit A; RNAse HI large subunit; Aicardi-Goutieres; syndrome 4 protein; AGS4

Accession No.: O75792

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within human RNAse H2A.

Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500; ICC: 1:100-1:500

Storage: Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.