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Datasheet for ABIN1700279

**anti-Exonuclease 1 antibody (AA 31-130) (Biotin)**

## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µL   |
| Target:              | Exonuclease 1 (EX01)   |
| Binding Specificity: | AA 31-130  |
| Reactivity:          | Human, Mouse   |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This Exonuclease 1 antibody is conjugated to Biotin  |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (Frozen Sections) (IHC (fro)),<br>Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

## Product Details

|                       |   |
|-----------------------|---|
| Immunogen:            | KLH conjugated synthetic peptide derived from human Exonuclease 1 |
| Isotype:              | IgG   |
| Cross-Reactivity:     | Human, Mouse  |
| Predicted Reactivity: | Rat   |
| Purification:         | Purified by Protein A.  |

## Target Details

|                   |   |
|-------------------|---|
| Target:           | Exonuclease 1 (EX01)                            |
| Alternative Name: | Exonuclease 1 ( <a href="#">EX01 Products</a> ) |

## Target Details

**Background:** Synonyms: exo1, EXO1\_HUMAN, ExoI, Exonuclease 1, Exonuclease I, Exonuclease1, HEX1, hExoI, hExo1, hExoI, Rad2 nuclease family member homolog of *S. cerevisiae* exonuclease 1.

Background: Comparative evaluation of the expression patterns of the human and mouse genes, combined with previous biochemical and yeast genetic studies, indicate that the Exo1 (Exonuclease I) proteins are important contributors to chromosome processing during mammalian DNA repair and recombination. In mice, the Exo1 gene maps to distal chromosome 1, consistent with the recent mapping of the orthologous human HEX1/EXO1 gene to chromosome 1q43. Exo1 is expressed prominently in testis, an area of active homologous recombination, and spleen, a prominent lymphoid tissue. In both mammalian and yeast systems, Exo1 is a 5'-3' double stranded DNA exonuclease that has previously been implicated in DNA mismatch repair (MMR). The MMR system ensures genome integrity by removing mispaired and unpaired bases that originate during replication. In humans, Exo1 interacts with MSH2 and MLH1 and has been proposed to be a redundant exonuclease in MMR. In both mammalian and yeast systems, Exo1 plays a structural role in MMR and stabilizes multiprotein complexes containing a number of MMR proteins.

**Gene ID:** 9156

**Pathways:** [DNA Damage Repair](#), [Production of Molecular Mediator of Immune Response](#)

## Application Details

**Application Notes:** WB 1:300-5000  
IHC-P 1:200-400  
IHC-F 1:100-500

**Restrictions:** For Research Use only

## Handling

**Format:** Liquid

**Concentration:** 1 µg/µL

**Buffer:** Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

**Preservative:** ProClin

**Precaution of Use:** This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling

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|                  |                               |
|------------------|-------------------------------|
| Storage:         | -20 °C                        |
| Storage Comment: | Store at -20°C for 12 months. |
| Expiry Date:     | 12 months                     |