

Datasheet for ABIN5002215

anti-Exonuclease 1 antibody (AA 31-130) (AbBy Fluor® 750)[Go to Product page](#)

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 AbBy Fluor® 750
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (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 (EX01 Products)

Target Details

Background:	<p>Synonyms: <i>exo1</i>, <i>EXO1_HUMAN</i>, <i>ExoI</i>, <i>Exonuclease 1</i>, <i>Exonuclease I</i>, <i>Exonuclease1</i>, <i>HEX1</i>, <i>hExoI</i>, <i>hExo1</i>, <i>hExoI</i>, <i>Rad2</i> nuclease family member homolog of <i>S. cerevisiae</i> exonuclease 1.</p> <p>Background: Comparative evaluation of the expression patterns of the human and mouse genes, combined with previous biochemical and yeast genetic studies, indicate that the <i>Exo1</i> (<i>Exonuclease I</i>) proteins are important contributors to chromosome processing during mammalian DNA repair and recombination. In mice, the <i>Exo1</i> gene maps to distal chromosome 1, consistent with the recent mapping of the orthologous human <i>HEX1/EXO1</i> gene to chromosome 1q43. <i>Exo1</i> is expressed prominently in testis, an area of active homologous recombination, and spleen, a prominent lymphoid tissue. In both mammalian and yeast systems, <i>Exo1</i> 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, <i>Exo1</i> interacts with <i>MSH2</i> and <i>MLH1</i> and has been proposed to be a redundant exonuclease in MMR. In both mammalian and yeast systems, <i>Exo1</i> plays a structural role in MMR and stabilizes multiprotein complexes containing a number of MMR proteins.</p>
Gene ID:	9156
Pathways:	DNA Damage Repair , Production of Molecular Mediator of Immune Response

Application Details

Application Notes:	<p>FCM 1:20-100</p> <p>IF(IHC-P) 1:50-200</p> <p>IF(IHC-F) 1:50-200</p> <p>IF(ICC) 1:50-200</p>
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

Handling

	handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months