


Product datasheet

Anti-Exonuclease 1 antibody ab69874

2 Images

Overview

Product name	Anti-Exonuclease 1 antibody
Description	Rabbit polyclonal to Exonuclease 1
Host species	Rabbit
Specificity	This antibody detects endogenous levels of total Exonuclease 1 protein.
Tested applications	Suitable for: ELISA, WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse 
Immunogen	Synthesized peptide derived from the internal region of human Exonuclease 1.
Positive control	A549 cells and extracts from A549 cells

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS, 150mM Sodium chloride, pH 7.4
Purity	Immunogen affinity purified
Purification notes	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab69874** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

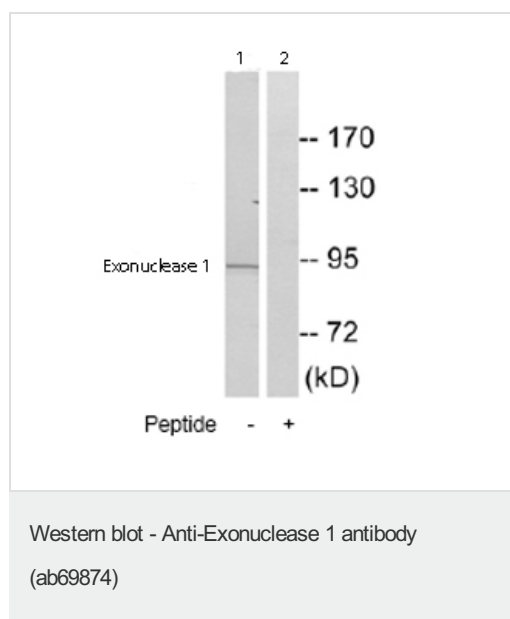
Application	Abreviews	Notes
ELISA		1/10000.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Detects a band of approximately 94 kDa (predicted molecular weight: 94 kDa).
ICC/IF		1/500 - 1/1000.

Target

Function	5'->3' double-stranded DNA exonuclease which may also possess a cryptic 3'->5' double-stranded DNA exonuclease activity. Functions in DNA mismatch repair (MMR) to excise mismatch-containing DNA tracts directed by strand breaks located either 5' or 3' to the mismatch. Also exhibits endonuclease activity against 5'-overhanging flap structures similar to those generated by displacement synthesis when DNA polymerase encounters the 5'-end of a downstream Okazaki fragment. Required for somatic hypermutation (SHM) and class switch recombination (CSR) of immunoglobulin genes. Essential for male and female meiosis.
Tissue specificity	Highly expressed in bone marrow, testis and thymus. Expressed at lower levels in colon, lymph nodes, ovary, placenta, prostate, small intestine, spleen and stomach.
Sequence similarities	Belongs to the XPG/RAD2 endonuclease family. EXO1 subfamily.
Developmental stage	Highly expressed in fetal liver and at lower levels in fetal brain, heart, kidney, spleen and thymus.
Post-translational modifications	Phosphorylated upon DNA damage and in response to agents stalling DNA replication, probably by ATM or ATR. Phosphorylation at Ser-454, Thr-621 and Ser-714 is induced upon DNA-damage caused by treatment with hydroxyurea (HU) but not upon IR treatment. The HU-induced EXO1 triple phosphorylation facilitates destabilisation/degradation of the protein.
Cellular localization	Nucleus. Colocalizes with PCNA to discrete nuclear foci in S-phase.

Images



All lanes : Anti-Exonuclease 1 antibody (ab69874) at 1/500 dilution

Lane 1 : Extracts from A549 cells

Lane 2 : Extracts from A549 cells with immunising peptide at 10 µg

Lysates/proteins at 30 µg per lane.

Predicted band size: 94 kDa

Observed band size: 94 kDa



Immunofluorescence analysis of A549 cells using ab69874 at a 1/500 dilution.

Left image un-treated.

Right image treated with immunizing peptide.

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