

Product datasheet

Anti-TDG antibody [EPR8774] ab154192

Recombinant RabMAb

★★★★☆ [1 Abreviews](#) [3 References](#) [4 Images](#)

Overview

Product name	Anti-TDG antibody [EPR8774]
Description	Rabbit monoclonal [EPR8774] to TDG
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB Unsuitable for: ICC/IF, IHC-P or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human TDG. Database link: Q13569
Positive control	Fetal lung tissue, Jurkat cell lysate, HeLa cells and HeLa cell lysate, K562 cell lysate and Fetal brain lysate
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR8774

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab154192 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
Flow Cyt (Intra)		1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 46 kDa.

Application notes

Is unsuitable for ICC/IF, IHC-P or IP.

Target

Function

In the DNA of higher eukaryotes, hydrolytic deamination of 5-methylcytosine to thymine leads to the formation of G/T mismatches. This enzyme corrects G/T mispairs to G/C pairs. It is capable of hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of the DNA and a mispaired thymine. In addition to the G/T, it can remove thymine also from C/T and T/T mispairs in the order G/T >> C/T > T/T. It has no detectable activity on apyrimidinic sites and does not catalyze the removal of thymine from A/T pairs or from single-stranded DNA. It can also remove uracil and 5-bromouracil from mispairs with guanine.

Sequence similarities

Belongs to the TDG/mug DNA glycosylase family.

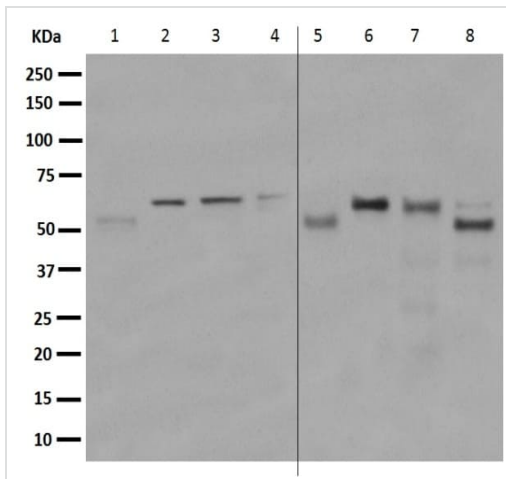
Post-translational modifications

Sumoylation on Lys-330 by either SUMO1 or SUMO2 induces dissociation of the product DNA.

Cellular localization

Nucleus.

Images



Western blot - Anti-TDG antibody [EPR8774]
(ab154192)

All lanes : Anti-TDG antibody [EPR8774] (ab154192) at 1/5000 dilution

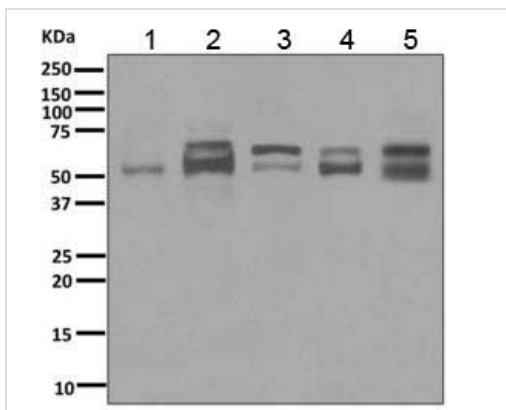
- Lane 1 :** Mouse brain tissue lysate
- Lane 2 :** Mouse heart tissue lysate
- Lane 3 :** Mouse kidney tissue lysate
- Lane 4 :** Mouse spleen tissue lysate
- Lane 5 :** Rat brain tissue lysate
- Lane 6 :** Rat heart tissue lysate
- Lane 7 :** Rat kidney tissue lysate
- Lane 8 :** Rat spleen tissue lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 46 kDa

Observed band size: 55-60 kDa

Exposure time: 3 minutes



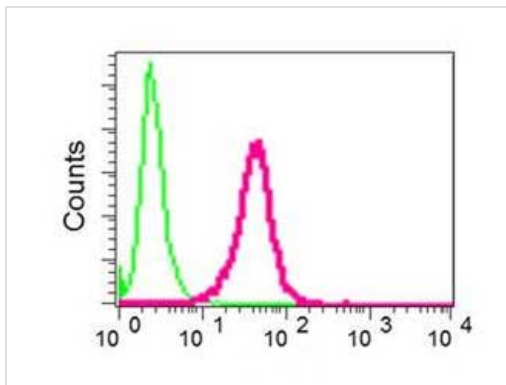
Western blot - Anti-TDG antibody [EPR8774]
(ab154192)

All lanes : Anti-TDG antibody [EPR8774] (ab154192) at 1/1000 dilution

- Lane 1 :** Fetal lung cell lysate
- Lane 2 :** Jurkat cell lysate
- Lane 3 :** HeLa cell lysate
- Lane 4 :** K562 cell lysate
- Lane 5 :** Fetal brain cell lysate

Lysates/proteins at 10 µg per lane.




Predicted band size: 46 kDa



Intracellular flow cytometric analysis of permeabilized HeLa cells labeling TDG with ab154192 at 1/10 dilution (red) compared to a negative control rabbit IgG antibody (green).

Flow Cytometry (Intracellular) - Anti-TDG antibody [EPR8774] (ab154192)

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-TDG antibody [EPR8774] (ab154192)

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