

Datasheet for ABIN3022649

anti-LIG3 antibody

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Overview

Quantity:	100 µL
Target:	LIG3
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LIG3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant protein of human LIG3
Isotype:	IgG
Purification:	Affinity purification

Target Details

Target:	LIG3
Alternative Name:	LIG3 (LIG3 Products)
Background:	<p>This gene is a member of the DNA ligase family. Each member of this family encodes a protein that catalyzes the joining of DNA ends but they each have a distinct role in DNA metabolism.</p> <p>The protein encoded by this gene is involved in excision repair and is located in both the mitochondria and nucleus, with translation initiation from the upstream start codon allowing for transport to the mitochondria and translation initiation from a downstream start codon allowing</p>

Target Details

for transport to the nucleus. Additionally, alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]
Synonyms: LIG2, LIG3

Gene ID: 3980

UniProt: [P49916](#)

Pathways: [DNA Damage Repair](#)

Application Details

Application Notes: Recommended dilutions: WB: 1:500-1:2000, IHC: 1:50-1:200

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3

Preservative: Sodium azide

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

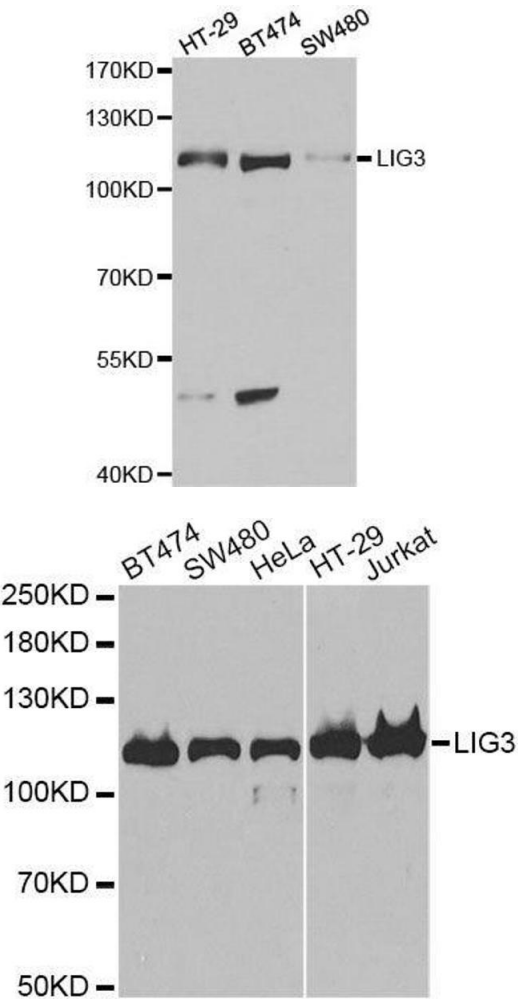
Handling Advice: Avoid freeze / thaw cycles

Storage: -20 °C/-80 °C

Publications

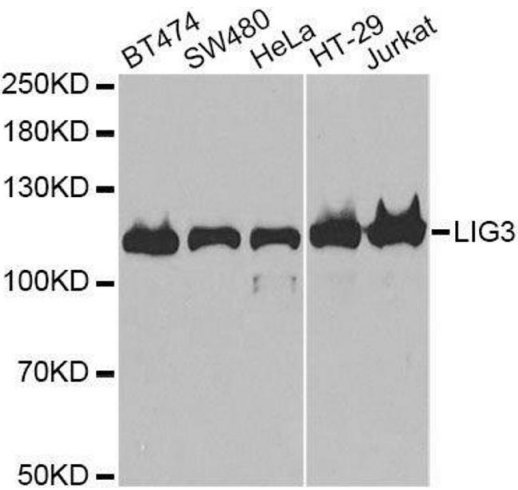
Product cited in: Li, Zhang, Chen, Guo, Zhang, Tang, Xu, Zhang, Tao, Wang, Jiang, Sun, Mao: "Impaired DNA double-strand break repair contributes to the age-associated rise of genomic instability in humans." in: **Cell death and differentiation**, Vol. 23, Issue 11, pp. 1765-1777, (2017) ([PubMed](#)).

Xu, Zhang, Zhang, Meng, Zhang, Jiang, Xu, Van Meter, Seluanov, Gorbunova, Mao: "SIRT6 rescues the age related decline in base excision repair in a PARP1-dependent manner." in: **Cell cycle (Georgetown, Tex.)**, Vol. 14, Issue 2, pp. 269-76, (2015) ([PubMed](#)).



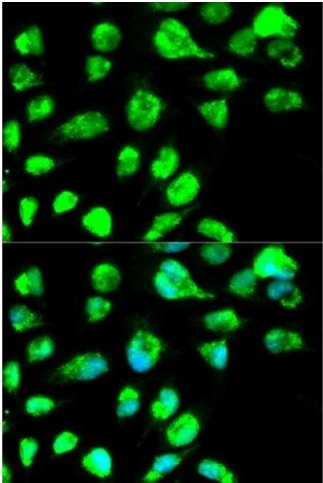
Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using LIG3 antibody(1:1000).



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using LIG3 antibody.



Immunofluorescence

Image 3. Immunofluorescence analysis of MCF-7 cells using LIG3 antibody.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3022649.