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Datasheet for ABIN2784751

anti-Endonuclease G antibody (Middle Region)

1 Image

1 Publication

Overview

Quantity:	100 µL
Target:	Endonuclease G (ENDOG)
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Dog, Guinea Pig, Horse, Zebrafish (Danio rerio), Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Endonuclease G antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human ENDOG
Sequence:	YVMPNAPVDE AIPLERFLVP IESIERASGL LFVPNILARA GSLKAITAGS
Predicted Reactivity:	Cow: 93%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rat: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against ENDOG. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	Endonuclease G (ENDOG)
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Target Details

Alternative Name:	ENDO G (ENDO G Products)
Background:	<p>ENDO G cleaves DNA at double-stranded (DG)_n.(DC)_n and at single-stranded (DC)_n tracts. In addition to deoxyribonuclease activities, ENDO G also has ribonuclease (RNase) and RNase H activities. ENDO G is capable of generating the RNA primers required by DNA polymerase gamma to initiate replication of mitochondrial DNA. The protein encoded by this gene is a nuclear encoded endonuclease that is localized in the mitochondrion. The encoded protein is widely distributed among animals and cleaves DNA at GC tracts. This protein is capable of generating the RNA primers required by DNA polymerase gamma to initiate replication of mitochondrial DNA.</p> <p>Alias Symbols: FLJ27463</p> <p>Protein Interaction Partner: UBC, BIRC2, DNAJA4, STUB1, HSPA4, AIFM1, FEN1,</p> <p>Protein Size: 297</p>
Molecular Weight:	28 kDa
Gene ID:	2021
NCBI Accession:	NM_004435 , NP_004426
UniProt:	Q14249
Pathways:	Apoptosis

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 297 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

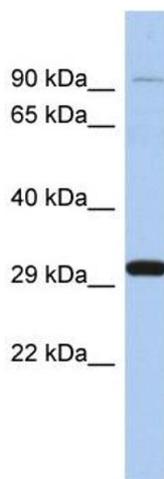
Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in: Guha, Bandyopadhyaya, Polumuri, Chumsri, Gade, Kalvakolanu, Ahmed et al.: "Nicotine promotes apoptosis resistance of breast cancer cells and enrichment of side population cells with cancer stem cell-like properties via a signaling cascade involving galectin-3, $\alpha 9$ nicotinic ..." in: **Breast cancer research and treatment**, Vol. 145, Issue 1, pp. 5-22, (2014) ([PubMed](#)).

Images



Western Blotting

Image 1. WB Suggested Anti-ENDOG Antibody Titration:

0.2-1 ug/ml

ELISA Titer: 1:62500

Positive Control: Human Intestine