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GIYD2 Rabbit pAb

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Catalog # AP55145

Product Information

Application	WB
Primary Accession	Q9BQ83
Reactivity	Human
Predicted	Rat, Dog, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30771
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GIYD2
Epitope Specificity	21-120/275
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a protein that is an important regulator of genome stability. The protein represents the catalytic subunit of the SLX1-SLX4 structure-specific endonuclease, which can resolve DNA secondary structures that are formed during repair and recombination processes. Two identical copies of this gene are located on the p arm of chromosome 16 due to a segmental duplication; this record represents the more telomeric copy. Alternative splicing results in multiple transcript variants. Read-through transcription also occurs between this gene and the downstream SULT1A4 (sulfotransferase family, cytosolic, 1A, phenol-preferring, member 4) gene.

Additional Information

Gene ID	548593;79008
Other Names	Structure-specific endonuclease subunit SLX1 {ECO:0000255|HAMAP-Rule:MF_03100}, 3.1.-.- {ECO:0000255|HAMAP-Rule:MF_03100}, GIY-YIG domain-containing protein 1 {ECO:0000255|HAMAP-Rule:MF_03100}, SLX1A {ECO:0000255|HAMAP-Rule:MF_03100}
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

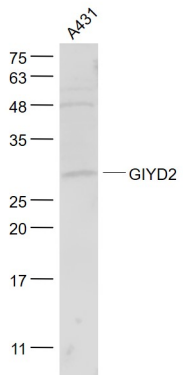
Protein Information

Name	SLX1A {ECO:0000255|HAMAP-Rule:MF_03100}
Function	Catalytic subunit of the SLX1-SLX4 structure-specific endonuclease that resolves DNA secondary structures generated during DNA repair and recombination. Has endonuclease activity towards branched DNA substrates, introducing single-strand cuts in duplex DNA close to junctions with ss-DNA. Has a preference for 5'-flap structures, and promotes symmetrical cleavage of static and migrating Holliday junctions (HJs). Resolves HJs by generating two pairs of ligatable, nicked duplex products.
Cellular Location	Nucleus {ECO:0000255|HAMAP-Rule:MF_03100, ECO:0000269|PubMed:19596236}

Background

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Images



Sample:
A431(Human) Cell Lysate at 30 ug
Primary: Anti- GIYD2 (AP55145) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 31 kD
Observed band size: 31 kD

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