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SLX1B Antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15971

Product Information

Application	WB
Primary Accession	Q9BQ83
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30771

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}
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 &mu, l of distilled water. Final Anti-SLX1B antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.
Precautions	SLX1B Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

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

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.

References

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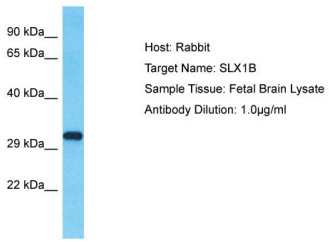
Hildebrandt M.A.T.,et al.Biochem. Biophys. Res. Commun. 321:870-878(2004).
Svendsen J.M.,et al.Cell 138:63-77(2009).
Fekairi S.,et al.Cell 138:78-89(2009).
Munoz I.M.,et al.Mol. Cell 35:116-127(2009).

Images



Host: Rabbit
Target Name: SLX1B
Sample Tissue: Fetal Brain lysates
Antibody Dilution: 1.0µg/ml