SLX4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SLX4, Polyclonal Antibody
Full Product Name	SLX4 Antibody
Product Gene Name	anti-SLX4 antibody
Product Synonym Names	BTB (POZ) domain containing 12; BTB/POZ domain-containing protein 12; BTBD12; FANCP; KIAA1784; KIAA1987; MUS312; SLX 4; slx4; SLX4 structure-specific endonuclease subunit homolog (S. cerevisiae); SLX4_HUMAN; Structure-specific endonuclease subunit slx4
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Concentration	1mg/ml (lot specific)
Specificity	SLX4 Antibody detects endogenous levels of total SLX4.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	SLX4 peptide (MBS9631528) is used for blocking the activity of SLX4 antibody (MBS9629145)
Molecular Weight	200,012 Da
OMIM	gene 613951
3D Structure	ModBase 3D Structure for Q8IY92
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from Human MYOCD.
Conjugation	Unconjugated
Similarity	Belongs to the SLX4 family.
Subunit Structure	Forms a heterodimer with SLX1A/GIYD1. Interacts with ERCC4; catalytic subunit of the ERCC4-ERCC1 endonuclease. Interacts with MUS81; catalytic subunit of the MUS81-EME1 endonuclease. Interacts with MSH2; component of the MSH2-MSH3 mismatch repair complex. Interacts with TERF2-TERF2IP. Interacts with PLK1 and SLX4IP.

Function	Regulatory subunit that interacts with and increases the activity of different structure-specific endonucleases. Has several distinct roles in protecting genome stability by resolving diverse forms of deleterious DNA structures originating from replication and recombination intermediates and from DNA damage. Component 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. Interacts with the structure-specific ERCC4-ERCC1 endonuclease and promotes the cleavage of bubble structures. Interacts with the structure-specific MUS81-EME1 endonuclease and promotes the cleavage of 3'-flap and replication fork-like structures. SLX4 is required for recovery from alkylation-induced DNA damage and is involved in the resolution of DNA double-strand breaks.
Note	Localizes to sites of DNA damage.
Product Categories/Family for anti-SLX4 antibody	Nucleus; Primary
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SLX4 antibody	ELISA (EIA)(peptide)
Application Notes for anti-SLX4 antibody	ELISA(peptide): 1:20000-1:40000
Related Product Information for anti-SLX4 antibody	MBS9629145 is an antibody targeting SLX4. Also known as SLX4 Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-SLX4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLX4. It may not necessarily be applicable to this product.

NCBI GI #	63252863
NCBI GeneID	84464
NCBI Accession #	NP_115820.2
UniProt Primary Accession #	Q8IY92
UniProt Secondary Accession #	Q69YT8; Q8TF15; Q96JP1
UniProt Related Accession #	Q8IY92
GenBank Nucleotide #	NM_032444.2
NCBI Official Full Name	structure-specific endonuclease subunit SLX4
NCBI Official Synonym Full Names	SLX4 structure-specific endonuclease subunit
NCBI Official Symbol	SLX4
NCBI Official Synonym Symbols	FANCP; BTBD12; MUS312
UniProt Protein Name	Structure-specific endonuclease subunit SLX4
UniProt Synonym Protein Names	BTB/POZ domain-containing protein 12
Protein Family	Structure-specific endonuclease
UniProt Gene Name	SLX4
UniProt Synonym Gene Names	BTBD12; KIAA1784; KIAA1987
UniProt Entry Name	SLX4_HUMAN

NCBI Protein Information	structure-specific endonuclease subunit SLX4; BTB (POZ) domain containing 12; BTB/POZ domain-containing protein 12; SLX4 structure-specific endonuclease subunit homolog
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