

GIYD2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP55145

Specification

GIYD2 Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession O9BO83

Reactivity Rat, Dog, Bovine

Host Rabbit Clonality **Polyclonal** Calculated MW 31 KDa **Physical State** Liquid

Immunogen KLH conjugated synthetic peptide derived

from human GIYD2

21-120/275 **Epitope Specificity**

laG Isotype **Purity**

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Nucleus.

Belongs to the SLX1 family. Contains 1 **SIMILARITY GIY-YIG domain. Contains 1 SLX1-type zinc**

finger.

SUBUNIT Forms a heterodimer with SLX4. This product as supplied is intended for Important Note

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.

GIYD2 Polyclonal Antibody - 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~~1:1000<br \><span class
="dilution_IHC-P">IHC-P~~N/A<br \><span class
="dilution_IHC-F">IHC-F~~N/A<br \><span class
="dilution_IF">IF~~1:50~200<br \>ICC~~N/A<br \>ICC~~N/A<br \>ICC~~N/A

Storage

Store at -20 $^{\circ}$ 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 $^{\circ}$ C.

GIYD2 Polyclonal Antibody - 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}

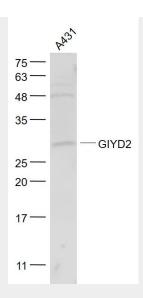
GIYD2 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GIYD2 Polyclonal Antibody - Images





Sample:

A431(Human) Cell Lysate at 30 ug

Primary: Anti- GIYD2 (bs-13361R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 31 kD Observed band size: 31 kD