

PRIM2 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17431c

Specification

PRIM2 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	P49643
Other Accession	O89044 , NP_000938.2
Reactivity	Human
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	58806
Antigen Region	317-345

PRIM2 Antibody (Center) - Additional Information

Gene ID 5558

Other Names

DNA primase large subunit, 277-, DNA primase 58 kDa subunit, p58, PRIM2, PRIM2A

Target/Specificity

This PRIM2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 317-345 amino acids from the Central region of human PRIM2.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PRIM2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PRIM2 Antibody (Center) - Protein Information

Name PRIM2

Synonyms PRIM2A

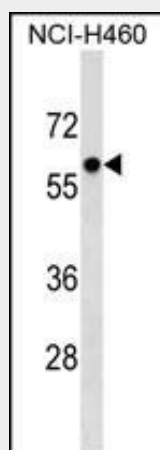
Function Regulatory subunit of the DNA primase complex and component of the DNA polymerase alpha complex (also known as the alpha DNA polymerase-primase complex) which play an essential role in the initiation of DNA synthesis (PubMed:[9705292](#), PubMed:[17893144](#), PubMed:[25550159](#), PubMed:[26975377](#)). During the S phase of the cell cycle, the DNA polymerase alpha complex (composed of a catalytic subunit POLA1, an accessory subunit POLA2 and two primase subunits, the catalytic subunit PRIM1 and the regulatory subunit PRIM2) is recruited to DNA at the replicative forks via direct interactions with MCM10 and WDHD1 (By similarity). The primase subunit of the polymerase alpha complex initiates DNA synthesis by oligomerising short RNA primers on both leading and lagging strands (PubMed:[17893144](#)). These primers are initially extended by the polymerase alpha catalytic subunit and subsequently transferred to polymerase delta and polymerase epsilon for processive synthesis on the lagging and leading strand, respectively (By similarity). In the primase complex, both subunits are necessary for the initial di-nucleotide formation, but the extension of the primer depends only on the catalytic subunit (PubMed:[17893144](#), PubMed:[25550159](#)). Binds RNA:DNA duplex and coordinates the catalytic activities of PRIM1 and POLA2 during primase-to-polymerase switch.

PRIM2 Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PRIM2 Antibody (Center) - Images



PRIM2 Antibody (Center) (Cat. #AP17431c) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the PRIM2 antibody detected the PRIM2 protein (arrow).

PRIM2 Antibody (Center) - Background

The replication of DNA in eukaryotic cells is carried out by a complex chromosomal replication apparatus, in which DNA polymerase alpha and primase are two key enzymatic components. Primase, which is a heterodimer of a small subunit and a large

subunit, synthesizes small RNA primers for the Okazaki fragments made during discontinuous DNA replication. The protein encoded by this gene is the large, 58 kDa primase subunit. [provided by RefSeq].

PRIM2 Antibody (Center) - References

Vaithiyalingam, S., et al. Proc. Natl. Acad. Sci. U.S.A. 107(31):13684-13689(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Weiner, B.E., et al. J. Biol. Chem. 282(46):33444-33451(2007)
Rush, J., et al. Nat. Biotechnol. 23(1):94-101(2005)
Mungall, A.J., et al. Nature 425(6960):805-811(2003)