À des fins de recherche uniquement

Anticorps Polyclonal de lapin anti-TOP3A

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Antibodies | ELISA kits | Proteins
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Numéro de catalogue:14525-1-AP Phare 25 Publications

Informations de base

Numéro de catalogue:
14525-1-AP

Taille:
150ul , Concentration: 1000 μg/ml by Nanodrop and 433 μg/ml by Bradford method using BSA as the standard;

Hôte:
Lapin

Isotype:
IgG

Immunogen Catalog Number:
AG6010

Numéro d'acquisition GenBank:
BC051748

Identification du gène (NCBI):
7156

Nom complet:
topoisomerase (DNA) III alpha

MW calculé
1001 aa, 112 kDa

MW observés:
100-110 kDa

Méthode de purification:
Purification par affinité contre l'antigène

Dilutions recommandées:
WB 1:500-1:2400
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB

Applications

Applications testées:
IP, WB,ELISA

Demandes citées:
IHC, IP, WB

Spécificité de l'espèce:
Humain

Espèces citées:
Humain, souris, xénope

Contrôles positifs:

WB : cellules K-562, cellules HL-60

IP : cellules K-562,

Informations générales

DNA topoisomerase 3-alpha (TOP3A) is an essential component of the RMI complex, a complex involves in the processing of homologous recombination intermediates to limit DNA crossover formation in cells. It releases the supercoiling and torsional tension of DNA introduced during the DNA replication and transcription by transiently cleaving and rejoining one strand of the DNA duplex. Introduces a single-strand break via transesterification at a target site in duplex DNA. The scissile phosphodiester is attacked by the catalytic tyrosine of the enzyme, resulting in the formation of a DNA-(5'-phosphotyrosyl)-enzyme intermediate and the expulsion of a 3'-OH DNA strand. The free DNA strand than undergoes passage around the unbroken strand thus removing DNA supercoils. Finally, in the religation step, the DNA 3'-OH attacks the covalent intermediate to expel the active-site tyrosine and restore the DNA phosphodiester backbone. This antibody is specific to react with the 110kd human TOP3A.

Publications notables

Autrice	Pubmed ID	Journal	Application
Dharm S Patel	28912125	J Cell Biol	WB
Emily Yun-Chia Chang	29042409	J Cell Biol	WB
Wenwen Wu	30279242	Cancer Res	IP

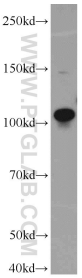
Stockage

Stockage:
Stocker à -20°C. Stable pendant un an après l'expédition.
Tampon de stockage:
PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3
L'aliquotage n'est pas nécessaire pour le stockage à -20C

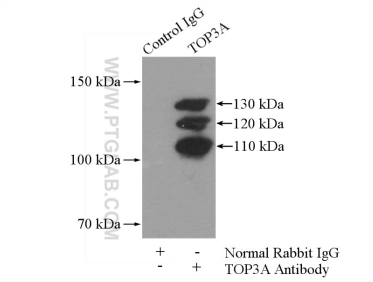
***** Les 20ul contiennent 0,1% de BSA.**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

Données de validation sélectionnées



K-562 cells were subjected to SDS PAGE followed by western blot with 14525-1-AP (TOP3A antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP Result of anti-TOP3A (IP:14525-1-AP, 4ug; Detection:14525-1-AP 1:500) with K-562 cells lysate 3600ug.