À des fins de recherche uniquement

Anticorps Polyclonal de lapin anti-MLH1

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Antibodies | ELISA kits | Proteins
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Numéro de catalogue:11697-1-AP Phare 22 Publications

Informations de base

Numéro de catalogue:
11697-1-AP

Taille:
150ul , Concentration: 700 μg/ml by Nanodrop and 453 μg/ml by Bradford method using BSA as the standard;

Hôte:
Lapin

Isotype:
IgG

Immunogen Catalog Number:
AG2319

Numéro d'acquisition GenBank:
BC006850

Identification du gène (NCBI):
4292

Nom complet:
mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli)

MW calculé
756 aa, 85 kDa

MW observés:
85 kDa

Méthode de purification:
Purification par affinité contre l'antigène

Dilutions recommandées:
WB 1:500-1:1000
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
IF 1:50-1:500

Applications

Applications testées:
IF, IP, WB,ELISA

Demandes citées:
CoIP, IF, IHC, WB

Spécificité de l'espèce:
Humain, rat, souris

Espèces citées:
Humain, poisson-zèbre, souris

Contrôles positifs:

WB : cellules A431, cellules HEK-293, cellules HeLa, cellules Jurkat, tissu testiculaire humain

IP : cellules HeLa,

IF : cellules HeLa,

Informations générales

MLH1, also named as COCA2, belongs to the DNA mismatch repair mutL/hexB family. It heterodimerizes with PMS2 to form MutL alpha which is a component of the post-replicative DNA mismatch repair system (MMR). MutL alpha (MLH1-PMS2) interacts physically with the clamp loader subunits of DNA polymerase III, suggesting that it may play a role to recruit the DNA polymerase III to the site of the MMR. MLH1 also implicated in DNA damage signaling, a process which induces cell cycle arrest and can lead to apoptosis in case of major DNA damages. MLH1 heterodimerizes with MLH3 to form MutL gamma which plays a role in meiosis.(PMID: 16873062, PMID: 18206974) Defects in MLH1 are the cause of hereditary non-polyposis colorectal cancer type 2 (HNPCC2). Defects in MLH1 are a cause of mismatch repair cancer syndrome (MMRCS). Defects in MLH1 are a cause of Muir-Torre syndrome (MTS). Defects in MLH1 are a cause of susceptibility to endometrial cancer. Western blot analysis with an MLH1 antibody detected a 85-100 kDa band. Full-length human MLH1 is specifically cleaved into degradation products of 40-45 kDa by caspase-3 (PMID: 15087450, PMID: 19603033). This antibody is specific to MLH1.

Publications notables

Autrice	Pubmed ID	Journal	Application
Xuting Ran	35664732	Front Oncol	IHC
Jun Zhu	32396667	J Surg Oncol	IHC
Dazhang Bai	33949657	Hum Mol Genet	WB

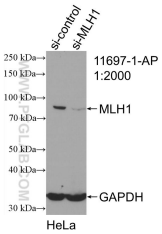
Stockage

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

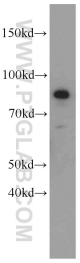
*** Les 20ul contiennent 0,1% de BSA.

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

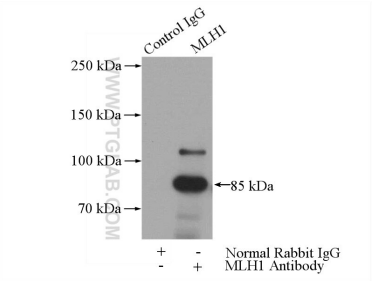
Données de validation sélectionnées



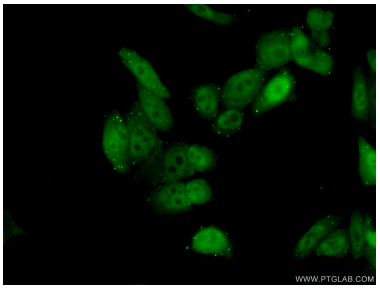
WB result of MLH1 antibody (11697-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MLH1 transfected HeLa cells.



A431 cells were subjected to SDS PAGE followed by western blot with 11697-1-AP (MLH1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP Result of anti-MLH1 (IP:11697-1-AP, 3ug; Detection:11697-1-AP 1:500) with HeLa cells lysate 3200ug.



Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 11697-1-AP (MLH1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).