PMS2 antibody

Product Information

Catalog No.:	FNab06578
Size:	100μg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20℃ for 12 months(Avoid repeated freeze / thaw cycles.)

Background

Component of the post-replicative DNA mismatch repair system(MMR). Heterodimerizes with MLH1 to form MutL alpha. DNA repair is initiated by MutS alpha(MSH2-MSH6) or MutS beta(MSH2-MSH6) binding to a dsDNA mismatch, then MutL alpha is recruited to the heteroduplex. Assembly of the MutL-MutS-heteroduplex ternary complex in presence of RFC and PCNA is sufficient to activate endonuclease activity of PMS2. It introduces single-strand breaks near the mismatch and thus generates new entry points for the exonuclease EXO1 to degrade the strand containing the mismatch. DNA methylation would prevent cleavage and therefore assure that only the newly mutated DNA strand is going to be corrected. 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. Also implicated in DNA damage signaling, a process which induces cell cycle arrest and can lead to apoptosis in case of major DNA damages.

Immunogen information

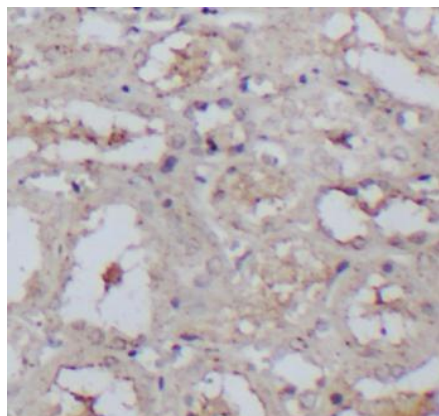|	
Immunogen:	PMS2 postmeiotic segregation increased 2
Synonyms:	Mismatch repair endonuclease PMS2|DNA mismatch repair protein PMS2|PMS1 protein homolog 2|PMS2|PMSL2
Observed MW:	100 kDa
Uniprot ID :	P54278

Application

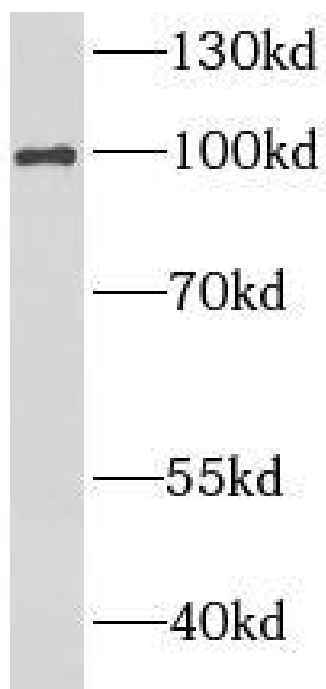Reactivity: Human, Mouse, Rat

Tested Application: ELISA, WB, IHC

Recommended dilution: WB: 1:500-1:2000; IHC: 1:50-1:500

Image:

Immunohistochemistry of paraffin-embedded human kidney tissue slide using FNab06578(PMS2 Antibody) at dilution of 1:1000

Rat brain were subjected to SDS PAGE followed by western blot with FNab06578(PMS2 antibody) at dilution of 1:1000