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(KO Validated) PMS2 Polyclonal Antibody

Catalog No.	E-AB-64786		**Reactivity**	H
Storage	Store at -20°C. Avoid freeze / thaw cycles.		**Host**	Rabbit
Applications	IF		**Isotype**	IgG

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Images
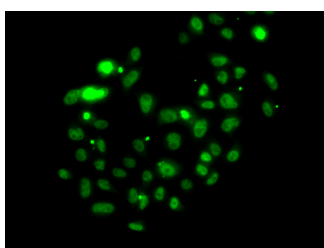
Immunofluorescence analysis of U2OS cells using PMS2 Polyclonal Antibody

Immunogen Information

Immunogen	Recombinant fusion protein of human PMS2 (NP_000526.2).
GeneID	5395
Swissprot	P54278
Synonyms	PMS2,HNPCC4,MLH4,PMS2CL,PMSL2

Product Information

Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purify	Affinity purification
Dilution	IF 1:50-1:200

Background

The protein encoded by this gene is a key component of the mismatch repair system that functions to correct DNA mismatches and small insertions and deletions that can occur during DNA replication and homologous recombination. This protein forms heterodimers with the gene product of the mutL homolog 1 (MLH1) gene to form the MutL-alpha heterodimer. The MutL-alpha heterodimer possesses an endonucleolytic activity that is activated following recognition of mismatches and insertion/deletion loops by the MutS-alpha and MutS-beta heterodimers, and is necessary for removal of the mismatched DNA. There is a DQHA(X)2E(X)4E motif found at the C-terminus of the protein encoded by this gene that forms part of the active site of the nuclease. Mutations in this gene have been associated with hereditary nonpolyposis colorectal cancer (HNPCC; also known as Lynch syndrome) and Turcot syndrome.