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C19orf39 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5547c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q6NVH7
Other Accession	NP_787067.2
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26184
Calculated MW	26597
Antigen Region	84-110

Additional Information

Gene ID	126074
Other Names	ATPase SWSAP1, SWIM-type zinc finger 7-associated protein 1, SWS1-associated protein 1, ZSWIM7-associated protein 1, ZSWIM7AP1, SWSAP1, C19orf39
Target/Specificity	This C19orf39 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 84-110 amino acids from the Central region of human C19orf39.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
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	C19orf39 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

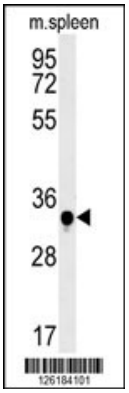
Protein Information

Name	SWSAP1 {ECO:0000303|PubMed:21965664, ECO:0000312|HGNC:HGNC:26638}
Function	Single-stranded DNA-stimulated ATPase involved in DNA double- strand

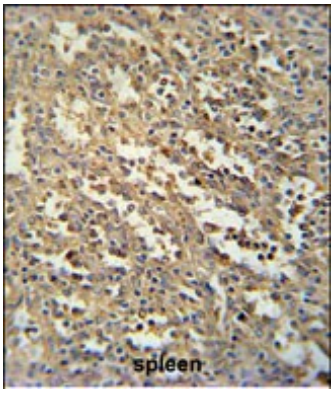
break (DSB) repair via homologous recombination (HR) (PubMed:21965664, PubMed:34253720, PubMed:39169038, PubMed:40345587). Forms a heterodimeric complex with ZSWIM7/SWS1 that promotes HR by regulating replication protein-A (RPA) dynamics on single-stranded DNA, thereby stabilizing RAD51 and DMC1 filaments on DNA (PubMed:34253720, PubMed:39169038, PubMed:40345587). The SWSAP1-ZSWIM7/SWS1 heterodimer is essential during meiosis by stabilizing DMC1 filaments (By similarity). In contrast, it is critical for only certain types of homologous-directed DNA repair, such as inter-homolog homologous recombination (IR-HR) (PubMed:34253720). IR-HR is a DNA repair mechanism where a cell repairs a DSB on one chromosome using the matching homologous chromosome as a template, rather than the sister chromatid (PubMed:34253720). Also promotes homologous recombination by inactivating the FIGNL1-FIRRM complex to protect RAD51 filament from premature disassembly (PubMed:30926776). Has a DNA-binding activity which is independent of its ATPase activity: preferentially binds DNA with an exposed 5' end (PubMed:40345587).

Cellular Location Chromosome. Nucleus

Images



C19orf39 Antibody (Center) (Cat. #AP5547c) western blot analysis in mouse spleen tissue lysates (15ug/lane).This demonstrates the C19orf39 antibody detected C19orf39 protein (arrow).



C19orf39 Antibody (Center) (Cat. #AP5547c) immunohistochemistry analysis in formalin fixed and paraffin embedded human spleen tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the C19orf39 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.