

SMARCAD1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57714

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9H4L7
Reactivity	Rat, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	117402

Additional Information

Gene ID	56916
Other Names	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A containing DEAD/H box 1, 3.6.4.12, ATP-dependent helicase 1, hHEL1, SMARCAD1, KIAA1122
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SMARCAD1 (HGNC:18398)
Function	DNA helicase that possesses intrinsic ATP-dependent nucleosome-remodeling activity and is both required for DNA repair and heterochromatin organization. Promotes DNA end resection of double-strand breaks (DSBs) following DNA damage: probably acts by weakening histone DNA interactions in nucleosomes flanking DSBs. Required for the restoration of heterochromatin organization after replication. Acts at replication sites to facilitate the maintenance of heterochromatin by directing H3 and H4 histones deacetylation, H3 'Lys-9' trimethylation (H3K9me3) and restoration of silencing.
Cellular Location	Nucleus. Chromosome. Note=Colocalizes with PCNA at replication forks during S phase (PubMed:21549307). Recruited to double-strand breaks (DSBs) sites of DNA damage (PubMed:22960744)

Tissue Location

Isoform 1 is expressed ubiquitously. Isoform 3 is expressed mainly in skin and esophagus. Expressed in fibroblasts and keratinocytes (at protein level) (PubMed:29409814)

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