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MFHA1/Malignant fibrous histiocytoma Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57194

Product Information

Application	IHC-P, IHC-F, IF, ICC
Primary Accession	Q9Y4C4
Reactivity	Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	116950

Additional Information

Gene ID	9258
Other Names	Malignant fibrous histiocytoma-amplified sequence 1, Malignant fibrous histiocytoma-amplified sequence with leucine-rich tandem repeats 1, MFHAS1 (HGNC:16982)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500
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	MFHAS1 (HGNC:16982)
Function	Probable GTP-binding protein (PubMed: 24286120). Functions in innate immunity and more specifically the inflammatory response as a regulator of the Toll-like receptor TLR2 and TLR4 signaling pathways (PubMed:26599367, PubMed:28471450, PubMed:28609714). Negatively regulates the part of the TLR4 signaling pathway that leads to the activation of the transcription factor AP-1. By retaining the phosphatase complex PP2A into the cytoplasm, prevents the dephosphorylation of the AP-1 subunit JUN which is required for proper activation of the transcription factor (PubMed:28609714). Both inhibits and activates the TLR2-dependent signaling pathway (PubMed:26599367). Positively regulates the TLR2 signaling pathway to activate specifically the downstream p38 and JNK MAP kinases and promote the polarization of macrophages toward the pro-inflammatory M1 phenotype (PubMed:28471450). It may also play a role in the regulation of inflammation induced by high glucose through the PKB/AKT signaling pathway (PubMed:29168081). Also involved in erythrocyte differentiation through

activation of the ERK1/ERK2 signaling pathway (PubMed:23327923).

Cellular Location Cytoplasm.

Tissue Location Ubiquitously expressed. Overexpressed in malignant fibrous histiocytomas (PubMed:9973190). Expressed in red blood cells (at protein level) (PubMed:23327923).

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