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OLA1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16503a

Product Information

Application	WB, E
Primary Accession	Q9NTK5
Other Accession	A0JPJ7, Q9CZ30, Q2HJ33, NP_037473.3
Reactivity	Human
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35963
Calculated MW	44744
Antigen Region	43-71

Additional Information

Gene ID	29789
Other Names	Obg-like ATPase 1 {ECO:0000255|HAMAP-Rule:MF_03167}, DNA damage-regulated overexpressed in cancer 45, DOC45, GTP-binding protein 9, OLA1 {ECO:0000255|HAMAP-Rule:MF_03167}, GTPBP9
Target/Specificity	This OLA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 43-71 amino acids from the N-terminal region of human OLA1.
Dilution	WB~~1:1000 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	OLA1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	OLA1 {ECO:0000255|HAMAP-Rule:MF_03167}
Synonyms	GTPBP9

Function	Hydrolyzes ATP, and can also hydrolyze GTP with lower efficiency. Has lower affinity for GTP.
Cellular Location	Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03167, ECO:0000269|PubMed:20053727}. Nucleus {ECO:0000255|HAMAP-Rule:MF_03167, ECO:0000269|PubMed:20053727}. Nucleus, nucleolus {ECO:0000255|HAMAP- Rule:MF_03167, ECO:0000269|PubMed:20053727}. Note=Predominantly cytoplasmic, shuttles between the nucleus and the cytoplasm {ECO:0000255|HAMAP-Rule:MF_03167}
Tissue Location	Expressed in all tissues tested but its expression is more abundant in testis, liver, lung, and brain. Overexpressed in several malignancies, including cancers of the colon, rectum, ovary, lung, stomach, and uterus

Background

Hydrolyzes ATP, and can also hydrolyze GTP with lower efficiency. Has lower affinity for GTP.

References

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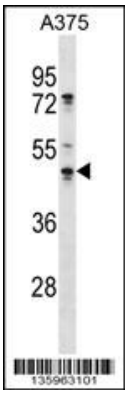
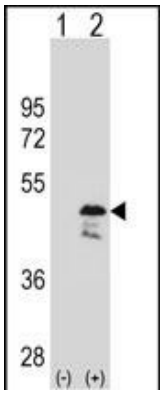
Sun, H., et al. Mol. Cancer Res. 8(1):57-66(2010)
Zhang, J.W., et al. J Zhejiang Univ Sci B 10(11):796-804(2009)
Zhang, J., et al. Proc. Natl. Acad. Sci. U.S.A. 106(36):15356-15361(2009)
Kira, Y., et al. Cell. Mol. Biol. Lett. 13(4):570-584(2008)

Images



OLA1 Antibody (N-term) (Cat. #AP16503a) western blot analysis in A375 cell line lysates (35ug/lane).This demonstrates the OLA1 antibody detected the OLA1 protein (arrow).



Western blot analysis of OLA1 (arrow) using rabbit polyclonal OLA1 Antibody (N-term) (Cat. #AP16503a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the OLA1 gene.