10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-ORAOV1 Antibody

Catalog # AP51409

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q8WV07
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	15354

Additional Information

Gene ID	220064
Other Names	TAOS1; Oral cancer-overexpressed protein 1; Tumor-amplified and overexpressed sequence 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ORAOV1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

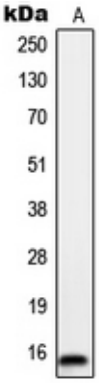
Protein Information

Name	LTO1 {ECO:0000303|PubMed:23318452, ECO:0000312|HGNC:HGNC:17589}
Function	The complex LTO1:YAE1 functions as a target specific adapter that probably recruits apo-ABCE1 to the cytosolic iron-sulfur protein assembly (CIA) complex machinery (PubMed:26182403). May be required for biogenesis of the large ribosomal subunit and initiation of translation (PubMed:23318452). May play a role in the regulation of proline metabolism and ROS production (PubMed:24930674).
Cellular Location	Nucleus {ECO:0000250|UniProtKB:P53846}.
Tissue Location	Widely expressed. Highly expressed in placenta, kidney and skeletal muscle.

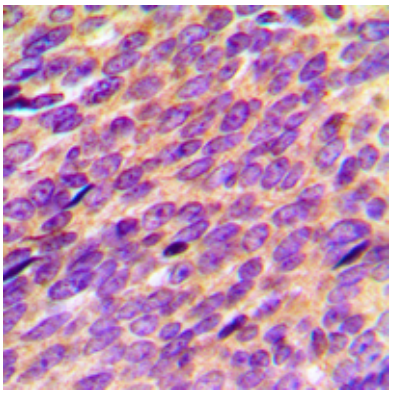
References

Huang X.,et al.Proc. Natl. Acad. Sci. U.S.A. 99:11369-11374(2002).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Rigbolt K.T.,et al.Sci. Signal. 4:RS3-RS3(2011).
Van Damme P.,et al.Proc. Natl. Acad. Sci. U.S.A. 109:12449-12454(2012).

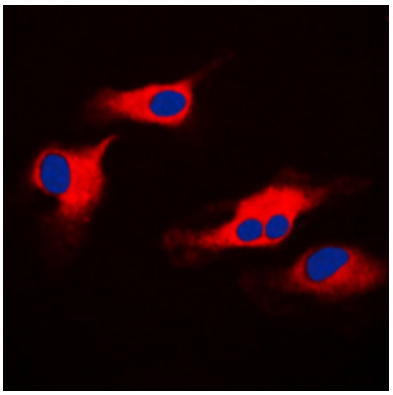
Images



Western blot analysis of ORAOV1 expression in HeLa (A) whole cell lysates. (Predicted band size: 15 kD; Observed band size: 15 kD)



Immunohistochemical analysis of ORAOV1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of ORAOV1 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).