

CENTD2 / ARAP1 Antibody (C-Term)
Peptide-affinity purified goat antibody
Catalog # AF2370a**Specification**

CENTD2 / ARAP1 Antibody (C-Term) - Product Information

Application	IHC
Primary Accession	Q96P48
Other Accession	NP_056057.2 , NP_001035207.1 , NP_001128662.1 , 116985 , 69710 (mouse)
Reactivity	Mouse
Predicted	Human, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	162192

CENTD2 / ARAP1 Antibody (C-Term) - Additional Information**Gene ID** 116985**Other Names**

Arf-GAP with Rho-GAP domain, ANK repeat and PH domain-containing protein 1, Centaurin-delta-2, Cnt-d2, ARAP1, CENTD2, KIAA0782

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CENTD2 / ARAP1 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

CENTD2 / ARAP1 Antibody (C-Term) - Protein Information**Name** ARAP1**Synonyms** CENTD2, KIAA0782**Function**

Phosphatidylinositol 3,4,5-trisphosphate-dependent GTPase- activating protein that modulates actin cytoskeleton remodeling by regulating ARF and RHO family members (PubMed:11804590, PubMed:<a

[19666464](http://www.uniprot.org/citations/19666464)). Activated by phosphatidylinositol 3,4,5-trisphosphate (PtdIns(3,4,5)P3) binding and, to a lesser extent, by phosphatidylinositol 3,4-bisphosphate (PtdIns(3,4)P2) binding (PubMed:[11804590](http://www.uniprot.org/citations/11804590)). Has a preference for ARF1 and ARF5 (PubMed:[11804590](http://www.uniprot.org/citations/11804590)), PubMed:[19666464](http://www.uniprot.org/citations/19666464)). Positively regulates the ring size of circular dorsal ruffles and promotes macropinocytosis (PubMed:[22573888](http://www.uniprot.org/citations/22573888)). Acts as a bridging factor in osteoclasts to control actin and membrane dynamics (By similarity). Regulates the condensing of osteoclast podosomes into sealing zones which segregate the bone-facing membrane from other membrane domains and are required for osteoclast resorption activity (By similarity). Also regulates recruitment of the AP-3 complex to endosomal membranes and trafficking of lysosomal membrane proteins to the ruffled membrane border of osteoclasts to modulate bone resorption (By similarity). Regulates the endocytic trafficking of EGFR (PubMed:[18764928](http://www.uniprot.org/citations/18764928)), PubMed:[18939958](http://www.uniprot.org/citations/18939958)), PubMed:[21275903](http://www.uniprot.org/citations/21275903)), PubMed:[38682696](http://www.uniprot.org/citations/38682696)). Required in the retinal pigment epithelium (RPE) for photoreceptor survival due to its role in promoting RPE phagocytosis (By similarity).

Cellular Location

Cytoplasm. Golgi apparatus, trans-Golgi network. Golgi apparatus, Golgi stack. Cell membrane; Peripheral membrane protein. Endosome, multivesicular body. Cell projection, ruffle. Cell projection, podosome {ECO:0000250|UniProtKB:Q4LDD4}. Early endosome {ECO:0000250|UniProtKB:Q4LDD4}. Note=Associated with Golgi stacks in resting cells (PubMed:11804590). Throughout the cytoplasm and in surface protrusions in cells that are in the process of attaching to a surface and spreading (PubMed:11804590). Localizes to actin-rich podosomes, sealing zones and early endosomes in osteoclasts (By similarity). {ECO:0000250|UniProtKB:Q4LDD4, ECO:0000269|PubMed:11804590}

Tissue Location

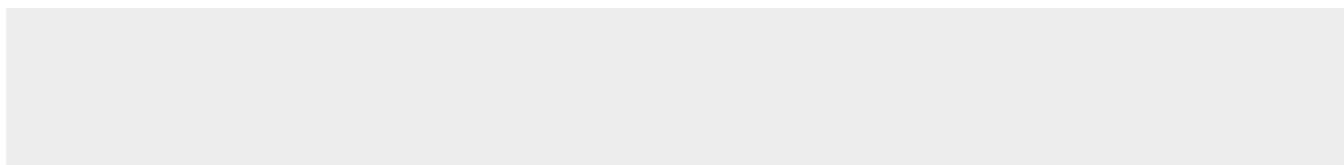
Detected in heart, skeletal muscle, spleen, kidney, liver, placenta, lung, peripheral blood leukocytes, adrenal gland, bone marrow, brain, lymph node, mammary gland, prostate, spinal cord, stomach, thyroid and trachea.

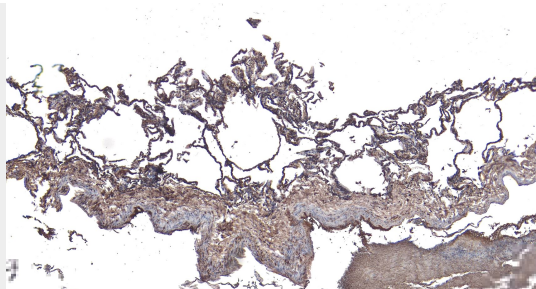
CENTD2 / ARAP1 Antibody (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

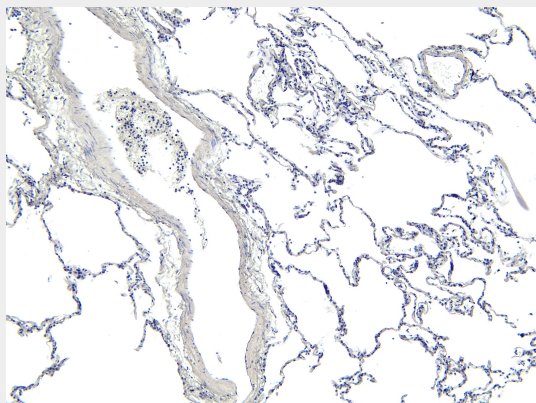
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CENTD2 / ARAP1 Antibody (C-Term) - Images





EB06126 (6µg/ml) staining of paraffin embedded Human Lung. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



EB06126 Negative Control showing staining of paraffin embedded Human Lung, with no primary antibody.

CENTD2 / ARAP1 Antibody (C-Term) - Background

This antibody is expected to recognise isoform a (NP_056057.2), isoform c (NP_001035207.1) and isoform d (NP_001128662.1).

CENTD2 / ARAP1 Antibody (C-Term) - References

ARAP1: a point of convergence for Arf and Rho signaling. Miura K, Jacques KM, Stauffer S, Kubosaki A, Zhu K, Hirsch DS, Resau J, Zheng Y, Randazzo PA. Mol Cell. 2002 Jan;9(1):109-19. PMID: 11804590