

OGFOD1 Antibody

Catalog # ASC11279

Product Information

Application	WB, IF, E
Primary Accession	Q8N543
Other Accession	NP_060703 , 94536836
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	63246
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	OGFOD1 antibody can be used for detection of OGFOD1 by Western blot at 1 μ g/mL. Antibody can also be used for immunofluorescence starting at 20 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	55239
Other Names	Prolyl 3-hydroxylase OGFOD1, 1.14.11.-, 2-oxoglutarate and iron-dependent oxygenase domain-containing protein 1, Termination and polyadenylation 1 homolog, OGFOD1, KIAA1612, TPA1
Target/Specificity	OGFOD1; OGFOD1 antibody is predicted to not cross-react with other TPA1 protein family members. At least two isoforms are known to exist; this antibody will only detect the larger isoform.
Reconstitution & Storage	OGFOD1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	OGFOD1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	OGFOD1
Synonyms	KIAA1612, TPA1
Function	Prolyl 3-hydroxylase that catalyzes 3-hydroxylation of 'Pro- 62' of small ribosomal subunit uS12 (RPS23), thereby regulating protein translation termination efficiency. Involved in stress granule formation.

Cellular Location

[Isoform 1]: Cytoplasm. Nucleus. Note=Mainly nuclear. A portion relocalizes to cytoplasmic stress granules upon stress

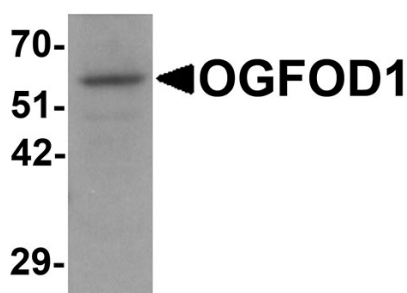
Background

OGFOD1 Antibody: OGFOD1, a member of the 2-OG-Fe(II) dioxygenase family, plays an important role in ischemic survival and stress. It is an oxidoreductase containing a Prolyl 4-hydroxylase alpha subunit. An OGFOD1 iron binding residue is required for ATPAF1 gene expression. As a novel stress granule component, OGFOD1 plays important proapoptotic roles in the regulation of translation and HRI-mediated phosphorylation of eIF2alpha in cells.

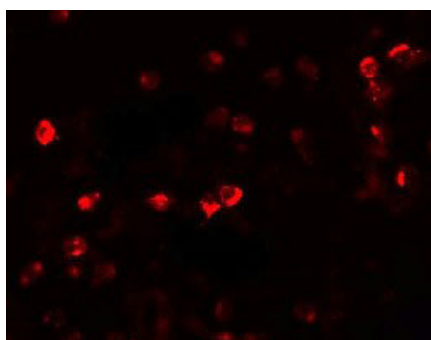
References

Saito K, Adachi N, Koyama H et al. OGFOD1, a member of the 2-oxoglutarate and iron dependent dioxygenase family, functions in ischemic signaling. *FEBS Lett.* 2010; 584:3340-7.
Wehner KA, Schutz S and Sarnow P. OGFOD1, a novel modulator of eukaryotic translation initiation factor 2alpha phosphorylation and the cellular response to stress. *Mol. Cell. Biol.* 2010; 30:2006-16.
Marina O, Hainz U, Biernacki MA, et al. Serologic markers of effective tumor immunity against chronic lymphocytic leukemia include nonmutated B-cell antigens. *Cancer Res.* 2010; 70:1344-55.

Images



Western blot analysis of OGFOD1 in Daudi cell lysate with OGFOD1 antibody at 1 µg/mL.



Immunofluorescence of OGFOD1 in Daudi cells with OGFOD1 antibody at 20 µg/mL.

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