

**OGFOD1 Antibody**  
Catalog # ASC11279**Specification**

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**OGFOD1 Antibody - Product Information**

Application	WB, IF
Primary Accession	<a href="#">O8N543</a>
Other Accession	<a href="#">NP_060703</a> , <a href="#">94536836</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	OGFOD1 antibody can be used for detection of OGFOD1 by Western blot at 1 µg/mL. Antibody can also be used for immunofluorescence starting at 20 µg/mL. For immunofluorescence start at 20 µg/mL.

**OGFOD1 Antibody - Additional Information**

Gene ID 55239

**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.

**OGFOD1 Antibody - 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**

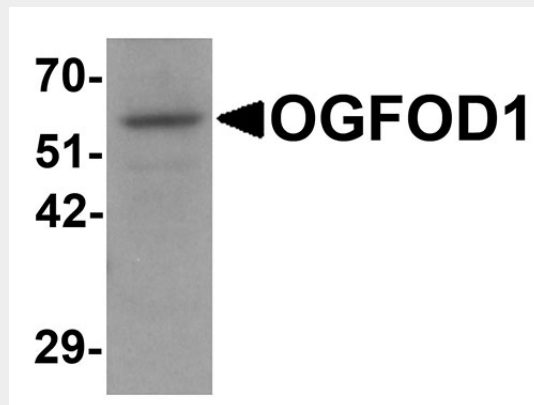
[Isoform 1]: Cytoplasm. Nucleus. Note=Mainly nuclear. A portion relocalizes to cytoplasmic stress granules upon stress

## OGFOD1 Antibody - Protocols

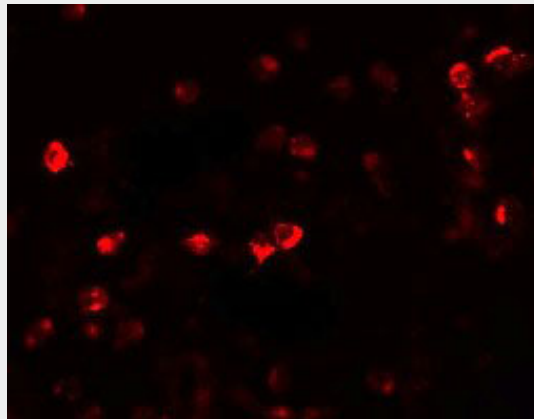
Provided below are standard protocols that you may find useful for product applications.

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

## OGFOD1 Antibody - 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.

## OGFOD1 Antibody - 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.

## OGFOD1 Antibody - 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.