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OGFOD1 Antibody
Catalog # ASC11279

Specification

OGFOD1 Antibody - Product Information

Application	**WB, IF**
Primary Accession	Q8N543
Other Accession	NP_060703, 94536836
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 isform.

Reconstitution & Storage
OGFOD1 antibody can be stored at 4℃ for three months and -20℃, 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

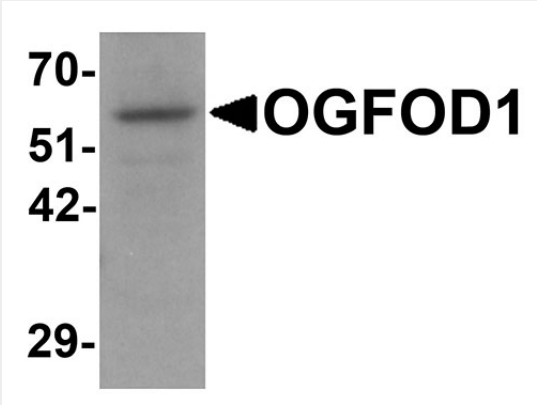
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OGFOD1 Antibody - Protocols

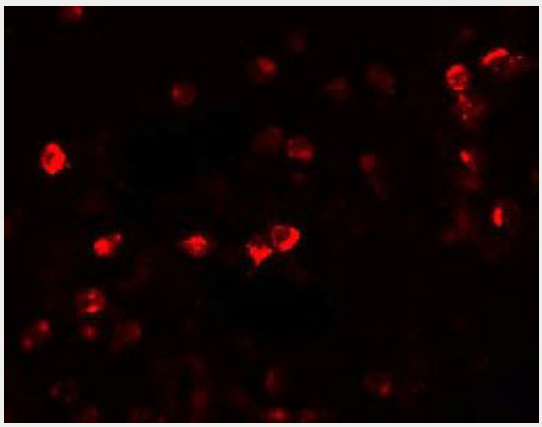
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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.