

# OGFOD2 Antibody

Catalog # ASC11280

## Product Information

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|------------------------------|---------------------------------------------------------------------------------|
| <b>Application</b>           | WB, E                                                                           |
| <b>Primary Accession</b>     | <a href="#">Q6N063</a>                                                          |
| <b>Other Accession</b>       | <a href="#">NP_078899</a> , <a href="#">13375846</a>                            |
| <b>Reactivity</b>            | Human, Mouse, Rat                                                               |
| <b>Host</b>                  | Rabbit                                                                          |
| <b>Clonality</b>             | Polyclonal                                                                      |
| <b>Isotype</b>               | IgG                                                                             |
| <b>Calculated MW</b>         | 38996                                                                           |
| <b>Concentration (mg/ml)</b> | 1 mg/mL                                                                         |
| <b>Conjugate</b>             | Unconjugated                                                                    |
| <b>Application Notes</b>     | OGFOD2 antibody can be used for detection of OGFOD2 by Western blot at 1 µg/mL. |

## Additional Information

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| <b>Gene ID</b>                      | 79676                                                                                                                                                                                                                                          |
| <b>Other Names</b>                  | 2-oxoglutarate and iron-dependent oxygenase domain-containing protein 2, 1.14.11.-, OGFOD2                                                                                                                                                     |
| <b>Target/Specificity</b>           | OGFOD2; OGFOD2 antibody is predicted to not cross-react with other TPA1 protein family members. At least three isoforms are known to exist; this antibody will only detect the two larger isoforms.                                            |
| <b>Reconstitution &amp; Storage</b> | OGFOD2 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. |
| <b>Precautions</b>                  | OGFOD2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.                                                                                                                                              |

## Protein Information

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| <b>Name</b> | OGFOD2 |
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## Background

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OGFOD2 Antibody: OGFOD2 is a member of the 2-OG-Fe(II) dioxygenase family which plays an important role in ischemic survival and stress. Like the related protein OGFOD1, OGFOD2 is an oxidoreductase containing a Prolyl 4-hydroxylase alpha subunit. Little is known about the function of OGFOD2, but its similarity to OGFOD1 suggests that it is a novel stress granule component that may play an important

proapoptotic role in the regulation of translation and HRI-mediated phosphorylation of eIF2 $\alpha$  in cells.

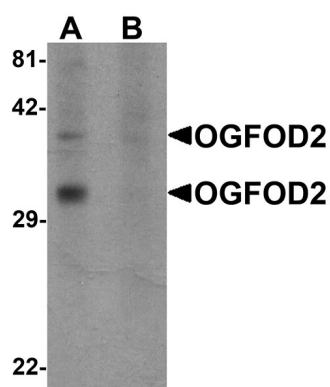
## References

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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 2 $\alpha$  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

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Western blot analysis of OGFOD2 in 293 cell lysate with OGFOD2 antibody at 1  $\mu$ g/mL in (A) the absence and (B) the presence of blocking peptide.

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