Datasheet for ABIN7602266

anti-OGFOD3 antibody (AA 67-311)

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Overview

Quantity:	100 µg
Target:	OGFOD3
Binding Specificity:	AA 67-311
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This OGFOD3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Purpose:	Anti-OGFOD3 Antibody Picoband®
Immunogen:	E.coli-derived human OGFOD3 recombinant protein (Position: D67-H311). Human OGFOD3 shares 92.2% and 90.6% amino acid (aa) sequence identity with mouse and rat OGFOD3, respectively.
Characteristics:	Anti-OGFOD3 Antibody Picoband® (ABIN7602266). Tested in WB, ICC/IF, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	OGFOD3
Alternative Name:	OGFOD3 (OGFOD3 Products)
Background:	OGFOD3 (2-oxoglutarate and iron-dependent oxygenase domain-containing protein 3) is a protein involved in the hydroxylation of transfer RNA (tRNA), specifically targeting tRNA-hypoxanthine modification. This process is crucial for maintaining accurate translation and protein synthesis in cells. OGFOD3 belongs to the family of 2-oxoglutarate (2OG)-dependent oxygenases, which require iron and 2OG as cofactors to catalyze various oxidative reactions. Its role highlights the importance of tRNA modifications in cellular physiology, potentially influencing gene expression and protein function regulation.
Molecular Weight:	36 kDa
Gene ID:	79701

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Wang, S., Singh, S. K., Katika, M. R., Lopez-Aviles, S., & Hurtado, A. (2018). High throughput chemical screening reveals multiple regulatory proteins on FOXA1 in breast cancer cell lines. International Journal of Molecular Sciences, 19(12), 4123. 2. Maio, N., Kim, K. S., Singh, A., & Rouault, T. A. (2017). A single adaptable cochaperone-scaffold complex delivers nascent iron-sulfur clusters to mammalian respiratory chain complexes I-III. Cell metabolism, 25(4), 945-953. 3. Liu, X., Salokas, K., Tamene, F., Jiu, Y., Weldatsadik, R. G., 79hman, T., & Varjosalo, M. (2018). An AP-MS-and BioID-compatible MAC-tag enables comprehensive mapping of protein interactions and subcellular localizations. Nature communications, 9(1), 1188.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.

Handling

Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.