

Product datasheet for **CF501546**

Ornithine Decarboxylase (ODC1) Mouse Monoclonal Antibody [Clone ID: OTI1G1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1G1
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:2000, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ODC1 (NP_002530) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	51.0 kDa
Gene Name:	ornithine decarboxylase 1
Database Link:	NP_002530 Entrez Gene 18263 Mouse Entrez Gene 24609 Rat Entrez Gene 4953 Human P11926



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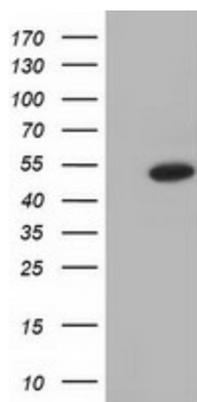
Background: This gene encodes the rate-limiting enzyme of the polyamine biosynthesis pathway which catalyzes ornithine to putrescine. The activity level for the enzyme varies in response to growth-promoting stimuli and exhibits a high turnover rate in comparison to other mammalian proteins. Originally localized to both chromosomes 2 and 7, the gene encoding this enzyme has been determined to be located on 2p25, with a pseudogene located on 7q31-qter. [provided by RefSeq]

Synonyms: BABS; NEDBA; NEDBIA; ODC

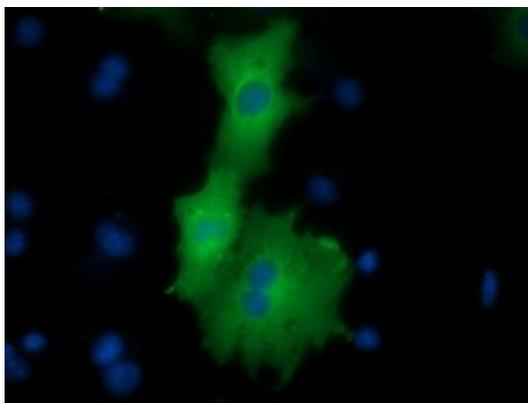
Protein Families: Druggable Genome

Protein Pathways: Arginine and proline metabolism, Glutathione metabolism, Metabolic pathways

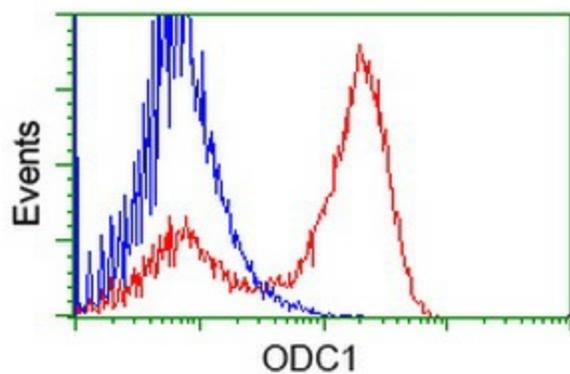
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ODC1 ([RC206858], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ODC1. Positive lysates [LY400909] (100ug) and [LC400909] (20ug) can be purchased separately from OriGene.



Anti-ODC1 mouse monoclonal antibody ([TA501546]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ODC1 ([RC206858]).



HEK293T cells transfected with either [RC206858] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ODC1 antibody ([TA501546]), and then analyzed by flow cytometry.