

Product datasheet for **TA501286AM**

Ornithine Decarboxylase (ODC1) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI1G6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1G6
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:500~2000, IF 1:100, FLOW 1:100
Reactivity:	Human, Monkey, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ODC1 (NP_002530) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
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 695625 Monkey 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

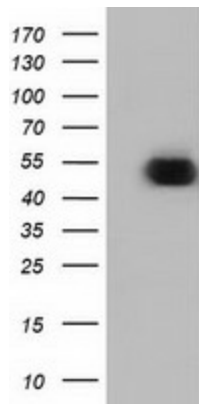
Protein Families:

Druggable Genome

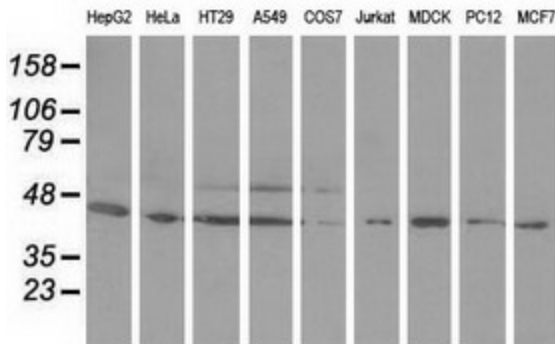
Protein Pathways:

Arginine and proline metabolism, Glutathione metabolism, Metabolic pathways

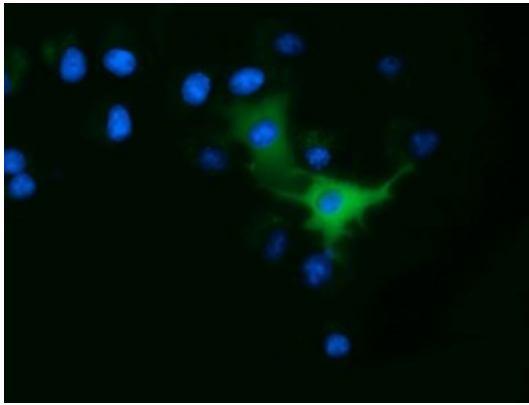
Product images:



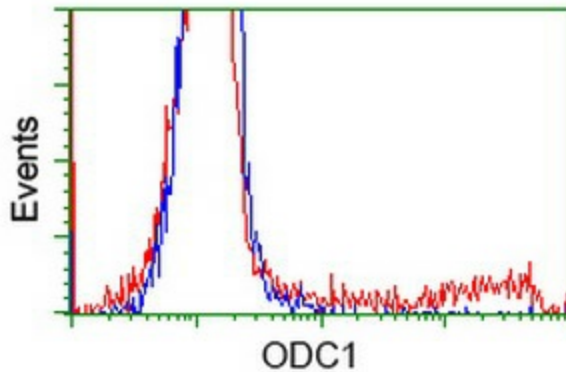
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ODC1 (Cat# [RC206858], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ODC1(Cat# [TA501286]). Positive lysates [LY400909] (100ug) and [LC400909] (20ug) can be purchased separately from OriGene.



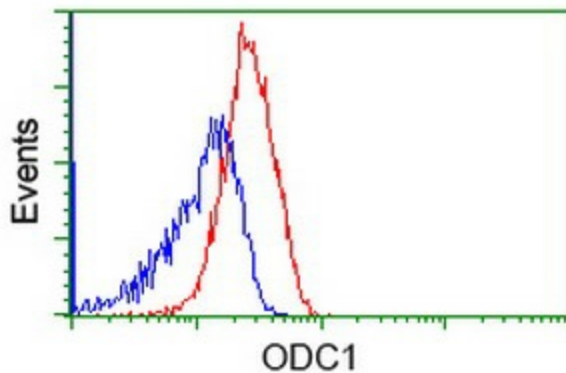
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-ODC1 monoclonal antibody.



Anti-ODC1 mouse monoclonal antibody ([TA501286]) 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 ([TA501286]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-ODC1 antibody ([TA501286]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).