



ADC Mouse mAb

Catalog No	YP-mAb-19471
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB
Gene Name	ADC KIAA1945 ODCP
Immunogen	Synthesized peptide derived from human ADC. AA range:157-227
Specificity	This antibody detects endogenous levels of ADC at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal,Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-15°C to -25°C/1 year(Do not lower than -25°C)
Synonyms	ADC KIAA1945 ODCP;Arginine decarboxylase (ADC) (ARGDC) (ODC-paralogue) (ODC-p) (Ornithine decarboxylase-like protein)
Observed Band	
Calculated Molecular Weight	51kD
Cell Pathway	Nucleus. Cytoplasm . Cytoplasm , perinuclear region. Membrane . Cytoplasmic vesicle. Endoplasmic reticulum-Golgi intermediate compartment . Golgi apparatus , cis-Golgi network . Golgi apparatus , trans-Golgi network. Cytoplasmic granule. Cell projection , axon. Cell projection , dendrite. Perikaryon. Colocalizes with KDEL receptors in ER-Golgi intermediate compartment (ERGIC) . Translocates from the ERGIC structure to the cytoplasm in an antizyme-dependent manner. Localizes with vesicle-associated membrane protein VAMP8 in the vicinity of the plasma membrane within serotonin-containing secretory granules (By similarity) . Detected as vesicle-like pattern in neurite outgrowths. Localizes to the vesicular compartments of the secretory pathway , predominantly in the trans-Golgi network (TGN) . Localizes with vesicle-associated membrane protein VAMP8 in the vicinity of the plasma membrane within serotonin-containing secretory granules. .
Tissue Specificity	Expressed in the neocortex , thalamus , hippocampus , cerebellum , medulla oblongata , gray and white matter. Expressed in neurons , oligodendrocytes , basket , Purkinje and pyramidal cells. Expressed in spermatocytes and Leydig cells of the testis. Expressed in luteal theca cells lining corpus luteum cysts and in hilus cells of the ovary. Expressed in primary and neoplastic mast cells (MC) (at protein level) . Highly expressed in brain. Also expressed in testis.

**Function**

Antizyme inhibitor (AZI) protein that positively regulates ornithine decarboxylase (ODC) activity and polyamine uptake. AZI is an enzymatically inactive ODC homolog that counteracts the negative effect of ODC antizymes (AZs) OAZ1, OAZ2 and OAZ3 on ODC activity by competing with ODC for antizyme-binding. Inhibits antizyme-dependent ODC degradation and releases ODC monomers from their inactive complex with antizymes, leading to formation of the catalytically active ODC homodimer and restoring polyamine production. Participates in the morphological integrity of the trans-Golgi network (TGN) and functions as a regulator of intracellular secretory vesicle trafficking.

Background**matters needing attention**

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images