



Mouse Anti-ARL6IP5 monoclonal antibody, clone 078D4 (CABT-RM177)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Detects PRA1 family protein 3 (JWA). It targets an epitope within 13 amino acids from the N-terminal region.
Target	ARL6IP5
Immunogen	KLH-conjugated linear peptide corresponding to 13 amino acids from the N-terminal region of human PRA1 family protein 3 (JWA).
Isotype	IgG1, κ
Source/Host	Mouse
Species Reactivity	Human, Mouse, Rat
Clone	078D4
Purification	Protein G purified
Conjugate	unconjugated
Applications	IP, WB
Molecular Weight	~22 kDa observed; 21.62 kDa calculated. Uncharacterized bands may be observed in some lysate(s).
Format	Liquid
Size	100 µg
Buffer	0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl

Preservative	0.05% sodium azide
Storage	Stable for 1 year at 2-8°C from date of receipt.

BACKGROUND

Introduction	PRA1 family protein 3 is encoded by the ARL6IP5 gene in human. JWA is a multi-pass membrane protein that also exists in a soluble form in the cytoplasm. It exists as either as a homodimer or as a heterodimer with ARL6IP1. Its homo or heterodimerization requires amino acids sequence 103-117 and another sequence (aa 136-188) is required for its targeting to the endoplasmic reticulum membrane. Its levels are reported to be up-regulated upon induced differentiation and during heat stress. JWA expression is dependent upon generation of intracellular reactive oxygen species (ROS) and it protects cells against ROS-associated DNA damage. JWA serves as a repair protein by regulating base excision repair. It can also serve as a tumor suppressor that can regulate tumor angiogenesis by suppressing the activity of matrix metalloproteinase and inhibiting invasion via focal adhesion kinase. JWA is also known to regulate cancer cells differentiation and apoptosis induced by multiple chemicals. However, its levels are relatively lower in many types of tumors. JWA is shown to sensitize p-glycoprotein-mediated drug resistance to etoposide, a topoisomerase II inhibitor.
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Keywords	ARL6IP5; ADP-ribosylation-like factor 6 interacting protein 5; JWA; jmx; hp22; PRAF3; DERP11; HSPC127; addicsin; GTRAP3-18
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GENE INFORMATION

Entrez Gene ID	10550
UniProt ID	O75915