

YPEL4 Antibody

Catalog # ASC11459

Product Information

Application	WB, IF, ICC, E
Primary Accession	Q96NS1
Other Accession	NP_659455 , 21450727
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	14301
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	YPEL4 antibody can be used for detection of YPEL4 by Western blot at 1 μ g/mL.

Additional Information

Gene ID	219539
Other Names	Protein yippee-like 4, YPEL4
Target/Specificity	YPEL4;
Reconstitution & Storage	YPEL4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	YPEL4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	YPEL4
Cellular Location	Nucleus, nucleolus.
Tissue Location	Widely expressed. Detected adult brain, lung, colon, small intestine and ovary, and in fetal brain, lung, liver and spleen.

Background

YPEL4 Antibody: YPEL4 (yippee-like 4) belongs to a family of five yippee-like proteins, all of which localize to the centrosome or mitotic spindle and are widely expressed in both adult and fetal tissue. This localization

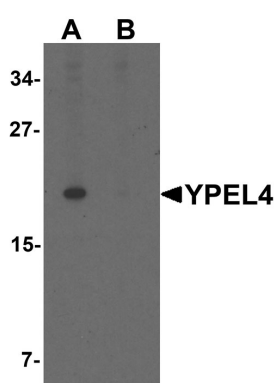
plus the fact that the family of human YPEL proteins share a high degree of sequence homology across species suggests that these proteins may have a conserved function involved in cell division. YPEL4 is ubiquitously expressed in adult tissues and has been shown to associate with the major vault protein (MVP). It has been suggested that MVP can inhibit YPEL4's ability to activate Elk-1 in the MAPK signaling pathway.

References

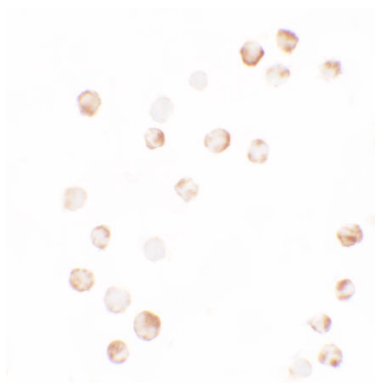
Hosono K, Sasaki T, Minoshima S, et al. Identification and characterization of a novel gene family YPEL in a wide spectrum of eukaryotic species. *Gene* 2004; 340: 31-43

Liang P, Wan Y, Yan Y, et al. MVP interacts with YPEL4 and inhibits YPEL4-mediated activities of the ERK signal pathway. *Biochem. Cell. Biol.* 2010; 88:445-50.

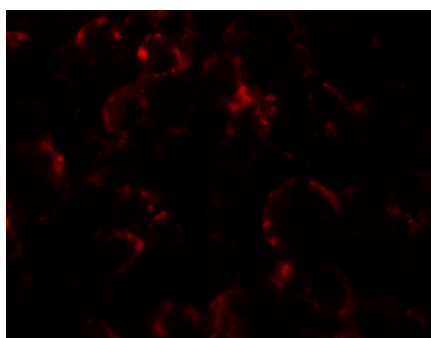
Images



Western blot analysis of YPEL4 in SW480 cell lysate with YPEL4 antibody at 1 μ g/mL in (A) the absence and (B) the presence of blocking peptide.



Immunocytochemistry of YPEL4 in SW480 cells with YPEL4 antibody at 2.5 μ g/ml.



Immunofluorescence of YPEL4 in SW480 cells with YPEL4 antibody at 5 μ g/ml.