

YPEL5 Antibody

Catalog # ASC11460

Product Information

Application	WB, IF, ICC, E
Primary Accession	P62699
Other Accession	NP_057145 , 7706341
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	13842
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	YPEL5 antibody can be used for detection of YPEL5 by Western blot at 1 μ g/mL. Antibody can also be used for immunocytochemistry starting at 2.5 μ g/mL. For immunofluorescence start at 2.5 μ g/mL.

Additional Information

Gene ID	51646
Other Names	Protein yippee-like 5, YPEL5
Target/Specificity	YPEL5;
Reconstitution & Storage	YPEL5 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	YPEL5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	YPEL5
Function	Component of the CTLH E3 ubiquitin-protein ligase complex that selectively accepts ubiquitin from UBE2H and mediates ubiquitination and subsequent proteasomal degradation of the transcription factor HBP1 (PubMed: 29911972). Required for normal cell proliferation (By similarity).
Cellular Location	Nucleus {ECO:0000250 UniProtKB:Q65Z55}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome {ECO:0000250 UniProtKB:Q65Z55}. Cytoplasm, cytoskeleton, spindle pole {ECO:0000250 UniProtKB:Q65Z55}. Midbody {ECO:0000250 UniProtKB:Q65Z55} Note=Detected in nucleus and at the

centrosome during interphase During mitosis, detected on the mitotic spindle, at spindle poles and at the midbody.
{ECO:0000250|UniProtKB:Q65Z55}

Background

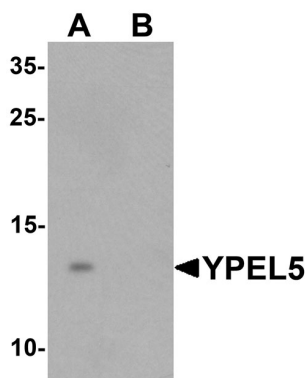
YPEL5 Antibody: YPEL5 (yippee-like 5) belongs to a family of five yippee-like proteins, all of which localize to the centrosome or mitotic spindle and are widely expressed in both adult and fetal tissue. This localization plus the fact that the family of human YPEL proteins share a high degree of sequence homology across species suggests that these proteins may have a conserved function involved in cell division. YPEL5 is expressed at the nucleus and centrosome during interphase; during mitosis, it localizes to the spindle poles, mitotic spindle, and spindle midzone during mitosis. Finally, during cytokinesis, YPEL5 is localized to the midbody. It is associated with the Ran Binding Protein in the Microtubule organizing center (RanBPM) and a related protein RanBP10.

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.

Hosono K, Noda S, Shimuzu A, et al. YPEL5 protein of the YPEL gene family is involved in the cell cycle progression by interacting with two distinct proteins RanBPM and RanBP10. *Genomics* 2010; 96:102-11.

Images

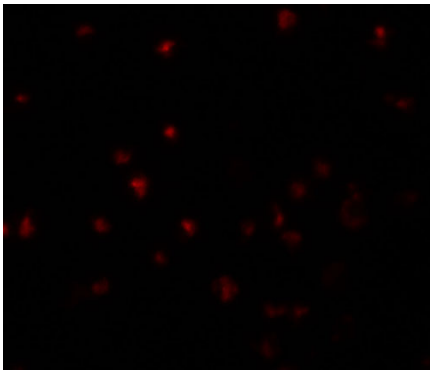


Western blot analysis of YPEL5 in A-20 cell lysate with YPEL5 antibody at 1 $\mu\text{g/mL}$ in (A) the absence and (B) the presence of blocking peptide.



Immunocytochemistry of YPEL5 in A20 cells with YPEL5 antibody at 2.5 $\mu\text{g/mL}$.

Immunofluorescence of YPEL5 in A20 cells with YPEL5 antibody at 5 $\mu\text{g/mL}$.



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