

Anti-ALMS1 Antibody

Catalog # AP50973

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q8TCU4
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	461062

Additional Information

Gene ID	7840
Other Names	KIAA0328; Alstrom syndrome protein 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ALMS1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

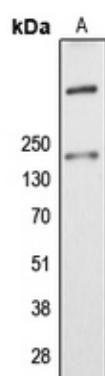
Name	ALMS1
Synonyms	KIAA0328
Function	Involved in PCM1-dependent intracellular transport. Required, directly or indirectly, for the localization of NCAPD2 to the proximal ends of centrioles. Required for proper formation and/or maintenance of primary cilia (PC), microtubule-based structures that protrude from the surface of epithelial cells.
Cellular Location	Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, cilium basal body. Cytoplasm, cytoskeleton, spindle pole Note=Associated with centrosomes and basal bodies at the base of primary cilia. Specifically locates to the proximal ends of centrioles and basal bodies. Colocalizes partially with NCAPD2 at these sites During mitosis localizes to both spindle poles
Tissue Location	Expressed in all tissues tested including adipose and pancreas. Expressed by

beta-cells of the islets in the pancreas (at protein level).

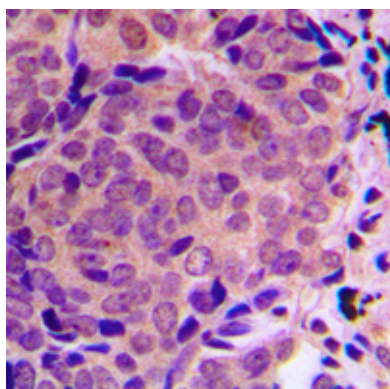
References

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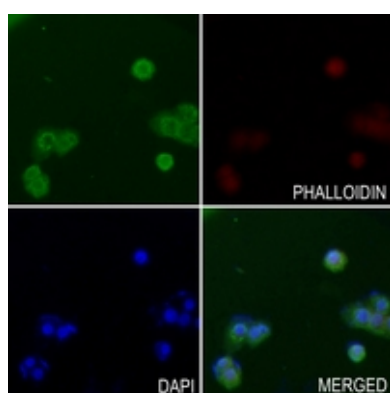
Images



Western blot analysis of ALMS1 expression in K562 (A) whole cell lysates. (Predicted band size: 461 kD; Observed band size: 460 kD)



Immunohistochemical analysis of ALMS1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of ALMS1 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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