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Anti-STK36 Antibody (aa373-422)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18057

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9NRP7
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	143995

Additional Information

Gene ID	27148
Alias Symbol	STK36
Other Names	STK36, Fused homolog, KIAA1278, FU, Serine/threonine kinase 36
Target/Specificity	STK36 Antibodyantibody detects endogenous levels of STK36.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-STK36 Antibody (aa373-422) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	STK36 {ECO:0000303|PubMed:31279575, ECO:0000312|HGNC:HGNC:17209}
Function	Serine/threonine protein kinase which plays an important role in the smoothened pathway by regulating the activity of GLI transcription factors (PubMed:10806483, PubMed:28543983, PubMed:31279575, PubMed:38096226). Controls the activity of the transcriptional regulators GLI1, GLI2 and GLI3 by opposing the effect of SUFU and promoting their nuclear localization (PubMed:10806483, PubMed:31279575, PubMed:38096226). Acts by mediating phosphorylation of GLI proteins, promoting their dissociation from SUFU (PubMed:28543983, PubMed:31279575, PubMed:38096226). Also catalyzes phosphorylation of ULK4 adapter (PubMed:38096226). GLI2 requires an additional function of STK36 to become transcriptionally active, but the enzyme does not need to possess an active kinase catalytic site for this to occur (PubMed:10806483). Required for postnatal development, possibly by regulating the homeostasis of cerebral spinal fluid or ciliary function (PubMed:28543983). Essential for construction of the central pair apparatus of motile cilia (PubMed:28543983).

Cellular Location	Cell projection, cilium. Cytoplasm, cytoskeleton, cilium axoneme. Cytoplasm Nucleus. Note=STK36 and ULK4 are mutually dependent for localization to ciliary tip (PubMed:38096226). Low levels also present in the nucleus (PubMed:10806483)
Tissue Location	Expressed at low levels in most fetal tissues, adult ovaries and at high levels in adult testis, where it is localized in germ cells (PubMed:10806483). Expressed in respiratory epithelial cells of the lung (PubMed:28543983).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.