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# STK33 Polyclonal Antibody

Catalog # AP72644

## Product Information

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|---|---|
| **Application** | WB, IHC-P |
| **Primary Accession** | Q9BYT3 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 57831 |

## Additional Information

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|---|---|
| **Gene ID** | 65975 |
| **Other Names** | STK33; Serine/threonine-protein kinase 33 |
| **Dilution** | WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A |
| **Format** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide. |
| **Storage Conditions** | -20℃ |

## Protein Information

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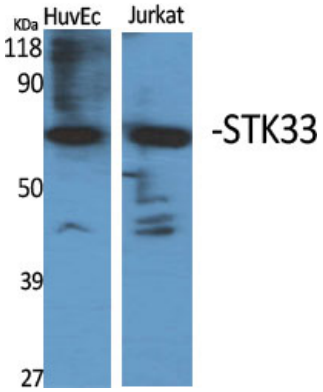
|---|---|
| **Name** | STK33 {ECO:0000303\|PubMed:34155512} |
| **Function** | Serine/threonine protein kinase required for spermatid differentiation and male fertility (PubMed:37146716, PubMed:38781365). Promotes sperm flagella assembly during spermatogenesis by mediating phosphorylation of fibrous sheath proteins AKAP3 and AKAP4 (By similarity). Also phosphorylates vimentin/VIM, thereby regulating the dynamic behavior of the intermediate filament cytoskeleton (By similarity). |
| **Cellular Location** | Cytoplasm {ECO:0000250\|UniProtKB:Q924X7}. Cytoplasm, cytoskeleton {ECO:0000250\|UniProtKB:Q924X7}. Cytoplasm, perinuclear region {ECO:0000250\|UniProtKB:Q924X7}. Note=Colocalizes with the caudal end of the manchette, a transient structure that guides tail elongation in elongating spermatids {ECO:0000250\|UniProtKB:Q924X7} |
| **Tissue Location** | Highly expressed in testis, fetal lung and heart, followed by pituitary gland, kidney, interventricular septum, pancreas, heart, trachea, thyroid gland and uterus. Weak hybridization signals were observed in the following tissues: amygdala, aorta, esophagus, colon ascending, colon transverse, skeletal muscle, spleen, peripheral blood leukocyte, lymph node, bone marrow, |

placenta, prostate, liver, salivary gland, mammary gland, some tumor cell lines, fetal brain, fetal liver, fetal spleen and fetal thymus. No signal at all was detectable in RNA from tissues of the nervous system

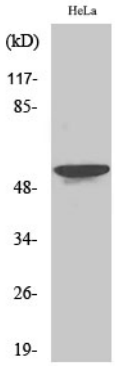
## Background

Serine/threonine protein kinase which phosphorylates VIME. May play a specific role in the dynamic behavior of the intermediate filament cytoskeleton by phosphorylation of VIME (By similarity). Not essential for the survival of KRAS-dependent AML cell lines.

## Images




Western Blot analysis of various cells using STK33 Polyclonal Antibody




Western Blot analysis of 293 cells using STK33 Polyclonal Antibody