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KD-Validated Anti-STK33 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2269

Specification

KD-Validated Anti-STK33 Rabbit Monoclonal Antibody - Product Information

Application	**WB**
Primary Accession	Q9BYT3
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 58 kDa; observed, 60 kDa KDa**
Gene Name	**STK33**
Aliases	**STK33; Serine/Threonine Kinase 33; Serine/Threonine-Protein Kinase 33; EC 2.7.11.1; EC 2.7.11; SPGF93**
Immunogen	**Recombinant protein of human STK33**

KD-Validated Anti-STK33 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**65975**

Other Names
Serine/threonine-protein kinase 33, 2.7.11.1, STK33 {ECO:0000303|PubMed:34155512}

KD-Validated Anti-STK33 Rabbit Monoclonal Antibody - Protein Information

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,

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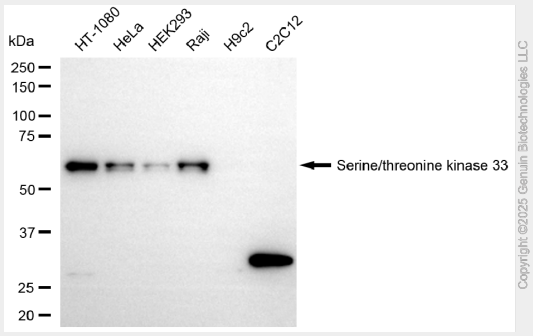
liver, salivary gland, mammary gland, some tumor cell lines, fetal brain, fetal liver, fetal spleen and fetal thymus. No signal at all was detectable in RNA from tissues of the nervous system

KD-Validated Anti-STK33 Rabbit Monoclonal Antibody - Protocols

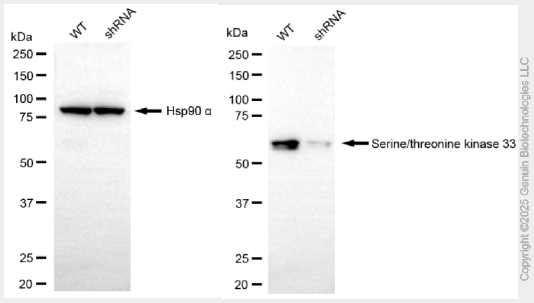
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-STK33 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-serine/threonine kinase 33 antibody (Cat#AGI2269). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-serine/threonine kinase 33 antibody (Cat#AGI2269, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-serine/threonine kinase 33 antibody (Cat#AGI2269). Serine/threonine kinase 33 expression in wild-type (WT) and serine/threonine kinase 33 (STK33) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-serine/threonine kinase 33 antibody (Cat#AGI2269, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.