

Store at
-20C
#95343**STK33 (D3S4R) Rabbit mAb**

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 65	Source/Isotype: Rabbit IgG	UniProt ID: #Q9BYT3	Entrez-Gene Id: 65975
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:50
1:500

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

STK33 (D3S4R) Rabbit mAb recognizes endogenous levels of total STK33 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro76 of human STK33 protein.

Background

Serine/threonine protein kinase (STK33) is a 524-residue kinase that belongs to the calcium/calmodulin-dependent family of kinases (1, 2). STK33 exhibits differential expression in normal and malignant cancer tissue, including hepatocellular carcinoma (3). STK33 expression is required in the context of mutant KRAS, the most commonly mutated human oncogene, to maintain for cellular viability and proliferation (4). STK33 depletion via modulation of interacting proteins (e.g., HSP90) results in proteasome-mediated degradation of STK33 in human cancer cells, triggering apoptosis (4).

Background References

1. Mujica, A.O. et al. (2001) *Gene* 280, 175-81.
2. Mujica, A.O. et al. (2005) *FEBS J* 272, 4884-98.
3. Yang, T. et al. (2016) *Gut* 65, 124-33.
4. Azoitei, N. et al. (2012) *J Exp Med* 209, 697-711.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human

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