

For Research Use Only

IHCeasy STK4 Ready-To-Use IHC Kit

Catalog Number: KHC1699

General Information

Sample type: FFPE tissue Cited sample type: Reactivity: Human, Mouse, Rat Cited Reactivity: Assay type: Immunohistochemistry Primary antibody type: Mouse Monoclonal Secondary antibody type: Polymer-HRP-Goat anti-Mouse

Kit Component

Size	Concentration
100 mL	50×
100 mL ×2	20×
5 mL	RTU
5 mL	RTU
5 mL	RTU
0.2 mL	RTU
4 mL	RTU
5 mL	RTU
5 mL	RTU
5 mL	RTU
1 slide (Optional)	FFPE
1 Сору	
1 Сору	
	Size 100 mL 100 mL × 2 5 mL 5 mL 0.2 mL 4 mL 5 mL 5 mL 1 side (Optional) 1 Copy

Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

Background

Mammalian STE20-like serine-threonine kinase MST1, encoded by the STK4 gene, is a multifunctional protein. MST1 and its closest paralogs MST2 (encoded by the STK3 gene), MST3, and MST4 are members of the Class II Germinal Center Family of Protein Kinases . STK3/4 and LATS1/2 are core kinase components of the Hippo tumor suppressor pathway in mammalians. In the conventional Hippo pathway, the STK3/4 and LATS1/2 signaling cascade phosphorylates and inactivates the transcriptional coactivator YAP1 and its close paralog WWTR1. YAP1 and WWTR1 do not have DNA binding domains and they exert their biological outputs, such as cell proliferation and survival, by interacting with the TEAD1-4 transcription factors. Lines of evidence have indicated that dysregulation or loss of STK4/Hippo signaling is linked to developmental disorders and carcinogenesis with poor prognosis. STK4 is a stress-induced kinase and it can be activated in response to cell-death inducers. Autophosphorylation of STK4/3 because phosphorylation of Thr183/180 causes the cleavage of STK4 protein (STK4-N, an amino-terminally truncated STK4), which localizes into the nucleus and induces apoptosis through histone modifications and chromatin condensations.

Synonyms

DKFZp686A2068, KRS2, MST 1, MST1, serine/threonine kinase 4, STE20 like kinase MST1, STK4, YSK3

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data







Immunohistochemical analysis of paraffinembedded human appendicitis tissue slide using KHC1699 (STK4 IHC Kit).

Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using KHC1699 (STK4 IHC Kit).

Immunohistochemical analysis of paraffinembedded mouse spleen tissue slide using KHC1699 (STK4 IHC Kit).



Immunohistochemical analysis of paraffinembedded rat spleen tissue slide using KHC1699 (STK4 IHC Kit).