

For Research Use Only

IHCeasy SMAD7 Ready-To-Use IHC Kit

Catalog Number: KHC0127

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 | |
| | 100 mL 100 mL ×2 5 mL 5 mL 5 mL 0.2 mL 4 mL 5 mL 5 mL 5 mL 5 mL 1 slide (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

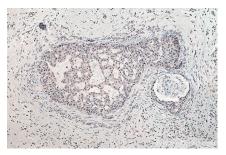
SMAD7, also named as Mothers against decapentaplegic homolog 7, is a 426 amino acid protein, which belongs to the dwarfin/SMAD family. SMAD7 Interaction with NEDD4L or RNF111 induces translocation from the nucleus to the cytoplasm. TGF-beta stimulates its translocation from the nucleus to the cytoplasm. TGF-beta stimulates its translocation from the nucleus to the cytoplasm. PDPK1 inhibits its translocation from the nucleus to the cytoplasm in response to TGF-beta. SMAD7 as antagonist of signaling by TGF-beta (transforming growth factor) type 1 receptor superfamily members has been shown to inhibit TGF-beta (Transforming growth factor) and activin signaling by associating with their receptors thus preventing SMAD2 access. SMAD7 functions as an adapter to recruit SMURF2 to the TGF-beta receptor complex and also acts by recruiting the PPP1R15A-PP1 complex to TGFBR1, which promotes its dephosphorylation. SMAD7 positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator.

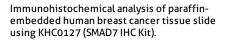
Synonyms

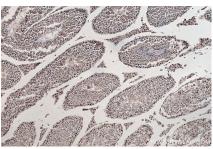
CRCS3, hSMAD7, MAD homolog 7, MAD homolog 8, MADH7, MADH8, Mothers against DPP homolog 7, Mothers against DPP homolog 8, SMAD 7, SMAD family member 7, SMAD7

For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



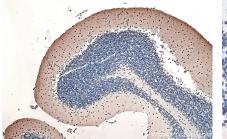




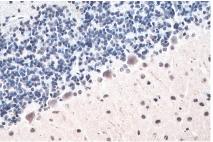
Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using KHC0127 (SMAD7 IHC Kit).



Immunohistochemical analysis of paraffinembedded rat testis tissue slide using KHC0127 (SMAD7 IHC Kit).



Immunohistochemical analysis of paraffinembedded mouse cerebellum tissue slide using KHC0127 (SMAD7 IHC Kit).



Immunohistochemical analysis of paraffinembedded rat cerebellum tissue slide using KHC0127 (SMAD7 IHC Kit).