Anti-SMURF2 Polyclonal Antibody

Cat: K110277P

Summary:

【**Product name**】: Anti-SMURF2 antibody

【**Source**】: Rabbit

【**Isotype**】: IgG

【**Species reactivity**】: Human Mouse

【**Swiss Prot**】: Q9HAU4

【**Gene ID**】: 64750

【**Calculated**】: MW:86kDa

【**Purification**】: Octanoic acid-ammonium sulfate precipitation

【**Tested applications**】: IHC

【**Recommended dilution**】: IHC 1:50-200.

【**IHC Positive sample**】: Human renal cancer

【**Subcellular location**】: Cytoplasm Nucleus

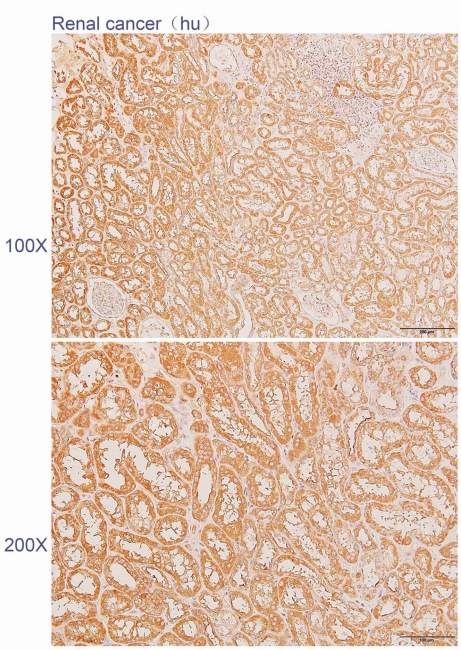
【**Immunogen**】: A synthetic peptide of SMURF2

【**Storage**】: Shipped at 4°C. Upon delivery aliquot and store at -20°C

Background:

E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Interacts with SMAD1 and SMAD7 in order to trigger their ubiquitination and proteasome-dependent degradation. In addition, interaction with SMAD7 activates autocatalytic degradation, which is prevented by interaction with SCYE1. Forms a stable complex with the TGF-beta receptor-mediated phosphorylated SMAD2 and SMAD3. In this way, SMAD2 may recruit substrates, such as SNON, for ubiquitin-mediated degradation. Enhances the inhibitory activity of SMAD7 and reduces the transcriptional activity of SMAD2. Coexpression of SMURF2 with SMAD1 results in considerable decrease in steady-state level of SMAD1 protein and a smaller decrease of SMAD2 level. Negatively regulates TGFB1-induced epithelial-mesenchymal transition and myofibroblast differentiation (PubMed:30696809).

Verified picture



Immunohistochemistry of paraffin-embedded Human renal cancer using SMURF2 antibody diluted at 1:100