

## Anti-SEPTIN2 Polyclonal Antibody

Cat: K108121P

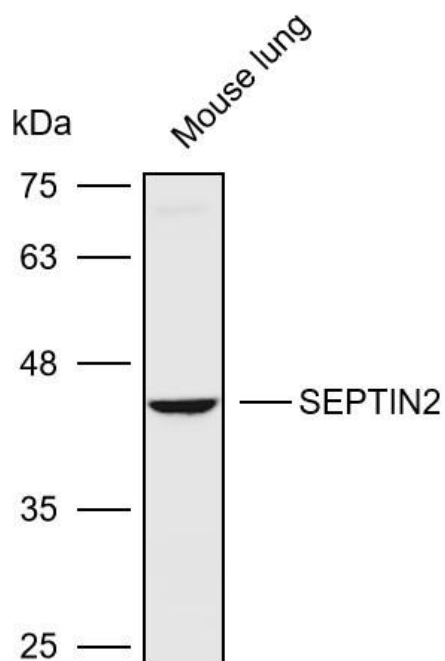
### Summary:

【Product name】 : Anti-SEPTIN2 antibody	【Source】 : Rabbit
【Isotype】 : IgG	【Species reactivity】 : Human Mouse Rat
【Swiss Prot】 : Q15019	【Gene ID】 : 4735
【Calculated】 : MW:41/45kDa	【Observed】 : MW:41kDa
【Purification】 : Affinity purification	
【Tested applications】 : WB IHC	
【Recommended dilution】 : WB 1:1000-3000. IHC1:50-200.	
【WB Positive sample】 : Mouse lung	
【IHC Positive sample】 : Human colorectal cancer	
【Subcellular location】 : Cytoplasm	
【Immunogen】 : Recombinant protein of human SEPTIN2	
【Storage】 : Shipped at 4°C. Upon delivery aliquot and store at -20°C	

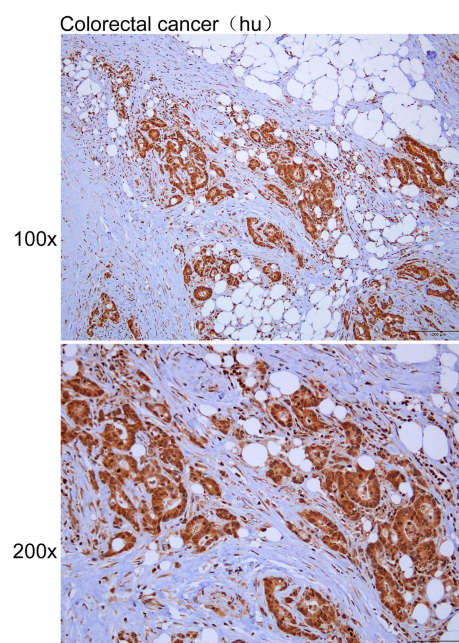
### Background:

Filament-forming cytoskeletal GTPase. Forms a 4filamentous structure with SEPTIN12, SEPTIN6, SEPTIN2 and probably SEPTIN4 at the sperm annulus which is required for the structural integrity and motility of the sperm tail during postmeiotic differentiation . Required for normal organization of the actin cytoskeleton. Plays a role in the biogenesis of polarized columnar-shaped epithelium by maintaining polyglutamylated microtubules, thus facilitating efficient vesicle transport, and by impeding MAP4 binding to tubulin. Required for the progression through mitosis. Forms a scaffold at the midplane of the mitotic spindle required to maintain CENPE localization at kinetochores and consequently chromosome congression. During anaphase, may be required for chromosome segregation and spindle elongation. Plays a role in ciliogenesis and collective cell movements. In cilia, required for the integrity of the diffusion barrier at the base of the primary cilium that prevents diffusion of transmembrane proteins between the cilia and plasma membranes: probably acts by regulating the assembly of the tectonic-like complex (also named B9 complex) by localizing TMEM231 protein. May play a role in the internalization of 2 intracellular microbial pathogens, *Listeria monocytogenes* and *Shigella flexneri*3.

## Verified picture



Western blot analysis with SEPTIN2 antibody  
diluted at 1:2000; Lane: Mouse lung



Immunohistochemistry of paraffin-embedded  
Human colorectal cancer with SEPTIN2  
antibody diluted at 1:100