

## Basic Information

Product Name	Anti-Villin 1/VIL1 Antibody	
Gene Name	VIL1	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC	
Contents	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Villin different from the related mouse sequence by three amino acids.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	93 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

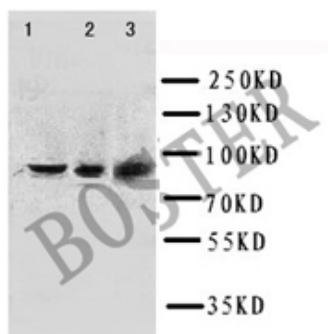
## Storage

12 months from date of receipt, -20°C as supplied.

## Background Information

Villin is known as VIL1. This gene encodes a member of a family of calcium-regulated actin-binding proteins. This protein represents a dominant part of the brush border cytoskeleton which functions in the capping, severing, and bundling of actin filaments. Two mRNAs of 2.7 kb and 3.5 kb have been observed; they result from utilization of alternate poly-adenylation signals present in the terminal exon. In vertebrates, the villin proteins help to support the microfilaments of the microvilli of the brush border. It may play a role in cell plasticity through F-actin severing.

## Selected Validation Data



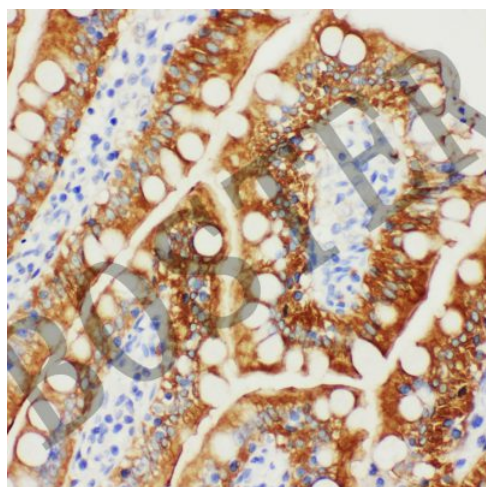
Western blot analysis of Villin 1/VIL1 using anti-Villin 1/VIL1 antibody (BA3779). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Rat liver tissue lysates,

Lane 2: Rat kidney tissue lysates,

Lane 3: human SW620 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Villin 1/VIL1 antigen affinity purified polyclonal antibody (BA3779) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Villin 1/VIL1 at approximately 93 kDa. The expected band size for Villin 1/VIL1 is at 93 kDa.



IHC analysis of Villin 1/VIL1 using anti-Villin 1/VIL1 antibody (BA3779).

Villin 1/VIL1 was detected in a paraffin-embedded section of rat intestinal tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody.

The tissue section was incubated with rabbit anti-Villin 1/VIL1 Antibody (BA3779) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.