Datasheet for ABIN6940874

Recombinant anti-Villin 1 antibody (AA 179-311)

3 Images

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Overview

Quantity:	100 µg
Target:	Villin 1 (VIL1)
Binding Specificity:	AA 179-311
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This Villin 1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	A recombinant fragment (around aa179-311) of human Villin protein (exact sequence is proprietary)
Clone:	RVIL1-1325
Isotype:	IgG1 kappa
Specificity:	Recognizes a protein of 95 kDa, which is identified as villin. It is a major constituent in the microvilli, which compose the brush border of epithelial cells forming absorptive surfaces of the intestinal and renal proximal tubular epithelia. Anti-Villin labels the brush border area in the gastrointestinal mucosal epithelium and urogenital tract. Among neoplasms, villin is predominantly expressed in tumors of colorectal origin. Antibody to villin is useful in identifying malignant cells from primary and metastatic colorectal carcinomas. This antibody also labels

Product Details

	Merkel cells of the skin.
Purification:	Purified by Protein A/G

Target Details

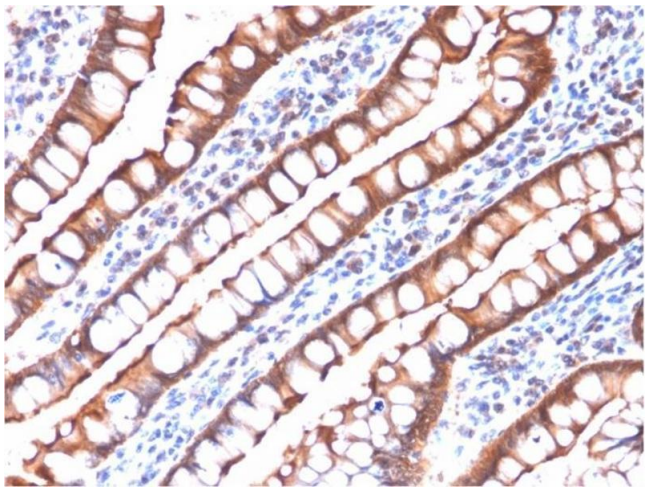
Target:	Villin 1 (VIL1)
Alternative Name:	VIL1 (VIL1 Products)
Molecular Weight:	93kDa
Gene ID:	7429
UniProt:	P09327
Pathways:	EGFR Signaling Pathway, Regulation of Actin Filament Polymerization

Application Details

Application Notes:	Positive Control: A549, HepG2 and HCT116 cells. Colon or Rectum. Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

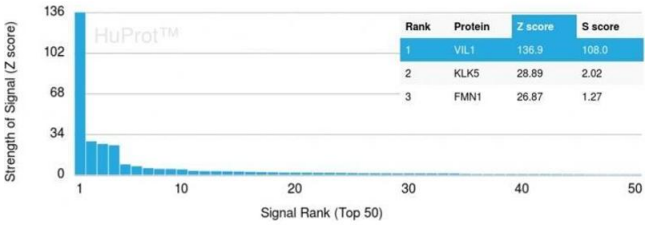
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months



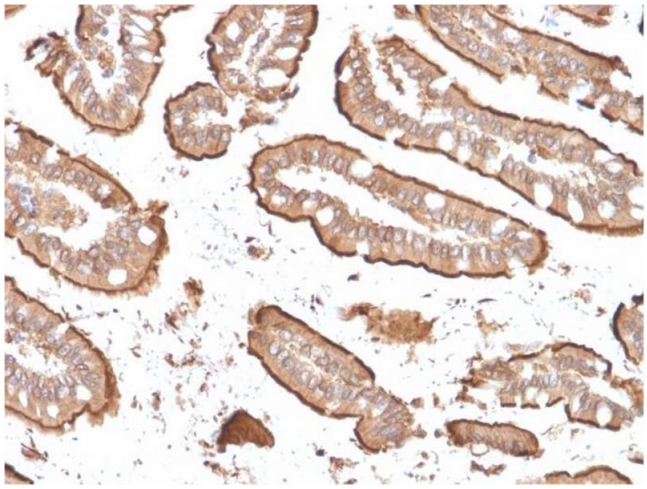
Immunohistochemistry

Image 1. Formalin-fixed, paraffin-embedded human Small Intestinal Carcinoma stained with Villin-Monospecific Recombinant Mouse Monoclonal Antibody (rVIL1/1325).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Villin-Monospecific Recombinant Mouse Monoclonal Antibody (rVIL1/1325) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Small Intestinal Carcinoma stained with Villin-Monospecific Recombinant Mouse Monoclonal Antibody (rVIL1/1325).

