

#37973 Store at -20C

VIP (D8J1V) Rabbit mAb (IHC Formulated)



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Applications: IHC-P	Reactivity: H M R	Sensitivity: Endogenous (IHC-P)	Source/Isotype: Rabbit IgG	UniProt ID: #P01282	Entrez-Gene Id: 7432
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Product Usage Information	Application Immunohistochemistry (Paraffin)	Dilution 1:200
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	VIP (D8J1V) Rabbit mAb (IHC Formulated) recognizes endogenous levels of total VIP protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln133 of human VIP protein.	
Background	Vasoactive intestinal polypeptide (VIP) is a neuropeptide synthesized as a precursor that is processed to an active mature peptide of 28 residues (1). VIP is produced by neurons, endocrine, and immune cells and is expressed in many tissues, in agreement with its various biological functions (2). VIP acts through activation of two receptors belonging to the G protein-coupled receptor family, VPAC1 and VPAC2 (2) and elicits several effects such as vasodilation, regulation of smooth muscle cell contractility, and blood flow in the gastrointestinal track (3,4). In addition, VIP is involved in the regulation of T cell differentiation (6), and in immunosuppression (7,8).	
Background References	<ol style="list-style-type: none"> 1. Linder, S. et al. (1987) <i>Proc Natl Acad Sci U S A</i> 84, 605-9. 2. Henning, R.J. and Sawmiller, D.R. (2001) <i>Cardiovasc Res</i> 49, 27-37. 3. Laburthe, M. et al. (2002) <i>Receptors Channels</i> 8, 137-53. 4. Said, S.I. and Mutt, V. (1970) <i>Science</i> 169, 1217-8. 5. Said, S.I. and Mutt, V. (1970) <i>Nature</i> 225, 863-4. 6. Voice, J. et al. (2004) <i>J Immunol</i> 172, 7289-96. 7. Bangale, Y. et al. (2003) <i>FASEB J</i> 17, 628-35. 8. Andersen, O. et al. <i>Peptides</i> 5, 435-7. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	IHC-P: Immunohistochemistry (Paraffin)
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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