

**Anti Vasoactive Intestinal Peptide (VIP), human, bovine, porcine, rat  
Mouse monoclonal antibody**

Subclass: IgG1/k

PRODUCT NO.	<b>ABS 023-02</b>																
PRESENTATION	Preparation: Protein-A/G purified Content: Available in 200 µL and 1 mL, 1 mg/mL Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide Storage: In the dark at 4-8°C																
ANTIGEN	Vasoactive intestinal peptide (VIP) is a 28-amino-acid peptide belonging to the secretin-glucagon family of peptide hormones. Its sequence is identical in man, ox, pig and rat. VIP is widely distributed in the central and peripheral nervous systems, acting as a neurotransmitter or neuromodulator. Peripherally it is involved in vaso- and bronchodilatation, smooth muscle relaxation and stimulation of secretion. Ectopic endocrine tumors secreting VIP (VIPomas) give rise to raised plasma levels of VIP and are associated with watery diarrhea, hypokalemia and achlorhydria syndrome. VIP shows high sequence homology with peptide histidine-methionine (PHM) in man or peptide histidine-serine (PHI) in pigs or rats, present in the same precursor, and with the neuropeptide pituitary adenylate cyclase																
IMMUNOGEN	Vasoactive intestinal peptide coupled to carrier																
SPECIFICITY	ABS 023-02 binds to human, bovine, porcine or rat VIP, but does not bind to PHM or PACAP																
EPI TOPE SPECIFICITY	Not determined																
REACTIVITY	The dilution guideline of 1/1000 applies to VIP coated directly at 2 µg/mL. For glutaraldehyde-linked VIP-ovalbumin (molar ratio 4:1) coated at 2 µg/mL, the dilution is 1/32,000.																
CULTURE MEDIUM	RPMI 1640 with 10% fetal calf serum																
FUSION PARTNER	SP2mIL6. (LGC Promochem, ATCC # CRL-2016)																
IMMUNIZATION	Female NMRI x BALB/c mice immunized i.p. with immunogen adsorbed onto Al(OH) <sub>3</sub> and emulsified in Freund's incomplete adjuvant																
APPLICATION	<table border="1"> <thead> <tr> <th>Method</th> <th>Usability</th> <th>Dilution guideline</th> <th>References</th> </tr> </thead> <tbody> <tr> <td>ELISA</td> <td>Yes</td> <td>1:1000</td> <td></td> </tr> <tr> <td>Immunoblotting</td> <td>Not determined</td> <td></td> <td></td> </tr> <tr> <td>Immunohistochemistry</td> <td>Not determined</td> <td></td> <td></td> </tr> </tbody> </table> <p>The dilution guideline for ELISA is based on use as detection antibody for antigen coated at 2 µg/ml. Users should determine the optimal dilutions for their own purposes.</p>	Method	Usability	Dilution guideline	References	ELISA	Yes	1:1000		Immunoblotting	Not determined			Immunohistochemistry	Not determined		
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## REFERENCES

## CONDITIONS

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.