

Anti-Peptide Histidine Methionine (PHM)

CAT. NO. ABS 020-03

OVERVIEW

Product Name	Anti-Peptide Histidine Methionine (PHM)	Conjugation	Unconjugated
Description	Mouse monoclonal antibody	Host	Mouse
Isotype	IgG2a/k	Clone	3
Tested Applications	ELISA, IHC		

SPECIFICITY

Specificity	ABS 020-03 binds human PHM and cross-reacts with PACAP (approximately 12%; incomplete, non-parallel inhibition). ABS 020-03 does not cross-react with GLP-1, GLP-2, VIP or glucagon.		
Immunogen	Synthetic human peptide histidine-methionine	Gene ID	7432
Target	Human peptide histidine-methionine (PHM) is a 27 amino acid peptide belonging to the glucagon-secretin family of peptide hormones. PHM is produced from the same prohormone as VIP, with which it shows considerable sequence homology. The VIP/PHM prohormone is produced by neurons in the central and peripheral nervous systems, often together with acetylcholine. In some situations the effect of the peptides is to reinforce and prolong the effects of neurotransmitter release. Like VIP, PHM is a vasodilator and stimulator of intestinal fluid secretion. High plasma levels of PHM are diagnostic of the corresponding peptide-producing tumor (VIPoma), associated with the watery diarrhea-hypokalemia-achlorhydria syndrome.		
Species Reactivity POSITIVE	Human	Species Reactivity NEGATIVE	Not determined

PROPERTIES

Form	Liquid	Unit Size	0,4 mL and 1 mL
Concentration	1 mg/mL \pm 15%, See CoA for lot details		
Purification	Protein A or Protein G purified	Purification Notes	BSA free
Storage buffer	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide		
Storage condition	2-8°C without exposure to light		
Safety	Wear protective clothing		

TESTED APPLICATIONS

ELISA	ABS 020-03 binds free PHM in solution. An ELISA dilution guideline of 1/2000 applies to PHM coated directly at 2 μ g/mL. For glutaraldehyde-linked PHM-ovalbumin (molar ratio 4:1) coated at 1 μ g/mL the dilution is 1/30,000.
IHC	ABS 020-03 was used in IHC on a human appendix section.

SCIENTIFIC REFERENCES

N/A

CONDITIONS

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