

Anti-Peptide Histidine-Methionine (PHM)

Mouse monoclonal antibody

Subclass: IgG2a/k

Clone: 3

CAT. NO.

ABS 020-03

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

TESTED APPLICATIONS ELISA, IHC

SPECIES REACTIVITY (POSITIVE) Human

SPECIES REACTIVITY (NEGATIVE) Not determined

EPITOPE SPECIFICITY Not determined

PRESENTATION

Content: Available in 400 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.

Preparation: Protein-A purified

Form: Liquid

Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide

Storage: 4-8°C without exposure to light. No precautions necessary during handling.

APPLICATION

ELISA: ABS 020-03 binds free PHM in solution. An ELISA dilution guideline of 1/2000 applies to PHM coated directly at 2 µg/mL. For glutaraldehyde-linked PHM-ovalbumin (molar ratio 4:1) coated at 1 µg/mL the dilution is 1/30,000.

IHC: ABS 020-03 was used in IHC on human appendix section.

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.

REFERENCES

CONDITIONS

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