

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human VIP R2 in direct ELISAs.                                                                                                                                                                                                                                      |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 476031                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | NS0 mouse myeloma cell line transfected with human VIP R2<br>Glu24-Ile438<br>Accession # P41587                                                                                                                                                                             |
| <b>Conjugate</b>          | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Immunohistochemistry** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## BACKGROUND

Human VIP R2 (Vasoactive intestinal polypeptide receptor 2) is a 47 kDa (predicted) seven transmembrane receptor that belongs to the G protein coupled receptor 2 family of proteins. In addition to the seven transmembrane regions, the mature chain also contains in its first extracellular region a hormone receptor domain (aa 49-114), which includes three N-linked glycosylation sites. Human VIP R2 shares 85% aa identity with mouse and rat VIP R2. VIP R2 is expressed predominantly in skeletal muscle and to a lesser extent in the brain, heart, pancreas, and placenta. VIP R2 is coupled to a cAMP mediated signal transduction pathway and binds VIP and pituitary adenylate cyclase activating polypeptide (PACAP).

## PRODUCT SPECIFIC NOTICES

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