

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human PUM2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human PUM1 is observed.                                                                                                                     |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 740610                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human PUM2<br>Pro103-Gly250<br>Accession # Q8TB72                                                                                                                                                                                       |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## BACKGROUND

The Pumilio proteins PUM1 and PUM2 are RNA binding proteins that are repressors of mRNA translation. PUM2 is present in embryonic stem cells and adult germ cells. Both positive and negative influences of PUM2 on proliferation have been reported. Human PUM2 is a 1066 amino acid (aa), 114 kDa (predicted) protein with 6 potential Ser/Thr phosphorylation sites (aa 82, 136, 178, 182, 184, 587, and 672), an acetylation site (aa 672), and a pumilio domain (aa 706-1048). Within aa 103-250, human PUM2 shares 95% aa sequence identity with mouse and rat PUM2. A potential 987 aa isoform lacks aa 574-652.

## PRODUCT SPECIFIC NOTICES

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