

## Human/Mouse PUM1 Alexa Fluor® 350-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 856332

Catalog Number: FAB7628U

100 µg

DESCRIPTION	
Species Reactivity	Human/Mouse
Specificity	Detects human PUM1 in ELISAs. Detects human and mouse PUM1 in Western Blots
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 856332
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human PUM1 Pro230-Ala372 Accession # Q14671
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
	*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.

China | info.cn@bio-techne.com TEL: 400.821.3475

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

PUM1 (Pumilio homolog 1/Pumilio-1) is a 130-140 kDa member of the PUF (PUmilio and FBF) family of RNA-binding proteins. It is ubiquitously expressed and appears to be involved in cell cycle regulation. Among other things, PUM1 is known to bind to the 3' UTR of p27 mRNA following cell activation. This results in a conformational change in the p27 transcript, allowing for miRNA binding and translational repression, followed by a decline in p27 availability and entry into S-phase of the cell cycle. Human PUM1 is 1186 amino acids (aa) in length. It contains N-terminal Ala-, Gln- and Ser-rich regions (aa 393-815), one PUM-HD region (aa 828-1168) and eight consecutive pumilio repeats (aa 726-1142). There are six utilized Ser/Thr phosphorylation sites and at least three isoform variants. One contains a five aa insert after Gly418, a second possesses an alternative start site 36 aa upstream of the standard site, and a third shows a deletion of aa 597-623 coupled to a two aa insertion after Gln950. Over aa 230-372, human PUM1 is identical to mouse PUM1 in amino acid sequence. Overall, human and mouse PUM1 share 99% aa sequence identity.

## PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

Rev. 9/23/2025 Page 1 of 1

Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956