

Human PUM2 Alexa Fluor® 532-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF7415X

100 µg

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human PUM2 in direct ELISAs and Western blots. In direct ELISAs, less than 4% cross-reactivity with recombinant human PUM1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human PUM2 Pro103-Gly250 Accession # Q8TB72
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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

PUM2 (Pumilio homolog 2/Pumilio-2) is a 121-125 kDa member of the PUF family of RNA-binding peoteins. It is expressed in a variety of cell types, including neurons, skeletal muscle cells, stem cells and germ cells, and plays a role in asymmetric cell division. PUM2 appears to bind to the 3' untranslated region of target mRNAs. By doing so, it causes a conformational change in the RNA, allowing for the subsequent binding of miRNAs and the silencing of protein translation. In germ cells, PUM2 is also reported to complex with NANOSI and SNAPIN, although its function in this complex is unclear. Human PUM2 is 1066 amino acids (aa) in length. It contains a SNAPIN interaction site (aa 1-260), one PUM-HD region (aa 706-1048) and eight consecutive pumilio repeats (aa 726-1022). There are six utilized Ser/Thr phosphorylation sites, and at least two isoform variants. One is 95-96 kDa in size and shows a deletion of aa 574-652, while another shows a deletion of two amino acids; Val829Ile830. Over aa 103-250, human PUM2 shares 95% aa sequence identity with mouse PUM2.

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. 9/16/2025 Page 1 of 1