

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse NPM1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human NPM1 Met9-Leu158 Accession # P06748
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.

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

NPM1 (Nucleophosmin 1; also nucleolar protein 23) is a 40 kDa member of the nucleoplasmin family of proteins. It is found in the nucleus where it performs multiple functions. NPM1 normally associates with unduplicated centrosomes. After phosphorylation at Thr199, it dissociates from centrosomes, allowing for centrosome duplication. NPM1 also negatively regulates GCN5-dependent histone acetylation during mitosis. Human NPM1 is 294 amino acids (aa) in length. It contains a Met-rich region (aa 1-9), two acidic regions (aa 120-132 and 161-188) and two NLSs (aa 152-157 and 191-197). Phosphorylation occurs at Ser4/10/70/254. Splice variants show a deletion of aa 195-223, a two aa substitution for aa 258-294 and an 11 aa substitution for aa 288-294. Over aa 9-158, human NPM1 is 97% aa identical to mouse NPM1.

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.