

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ADNP in direct ELISAs. In direct ELISAs, approximately 15% cross-reactivity with recombinant mouse ADNP is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human ADNP Leu941-Ala1102 Accession # Q9H2P0
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.
Immunohistochemistry	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

ADNP (Activity-dependent neuroprotective protein-1) is a member of a small family of VIP-induced neurotrophic factors. Although its predicted MW is 124 kDa, it runs anomalously at 150 kDa in SDS-PAGE. ADNP is known to be expressed by endothelium, astrocytes, neurons, macrophages, monocytes and B cells, and serves to down-regulate inflammation in immune cells, while acting to promote neuronal survival in response to stress or injury. Human ADNP is 1102 amino acids (aa) in length. It has no definitive signal sequence, but is reported to be found both extracellularly and intracellularly, where it shuttles between cytoplasm and nucleus. Full-length ADNP contains nine consecutive C2H2-type zinc finger regions (aa 74-686), followed by a DNA-binding homeobox domain (aa 754-814). There are 12 utilized phosphoserine sites, two C-terminal acetylated lysines, an NLS (aa 716-733), an NES (aa 788-804) and one NAPVSIPQ (NAP) motif (aa 354-361) that likely mediates the ADNP neuroprotective function. Over aa 941-1102, human ADNP shares 93% aa identity with mouse ADNP.

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.