Human ADNP Alexa Fluor® 647-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF6737R
100 µg

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	*E. coli*-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

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