Human/Mouse/Rat Amphiphysin/AMPH Alexa Fluor® 405-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF6527V
100 µg

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects Amphiphysin/AMPH in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Amphiphysin/AMPH Asn204-Gly300 Accession # P49418
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

AMPH (Amphiphysin; also AMPH1) is a 128 kDa member of the Amphiphysin family, BAR superfamily of proteins. Although its calculated MW is only 78 kDa, it runs anomalously in SDS-Page at 125-128 kDa. It is expressed in neurons, Sertoli cells, possibly in anterior pituitary endocrine cells and apparently cardiac muscle. It appears to form heterodimers with AMPH2, and in this configuration, promotes clathrin-associated endocytic vesicle formation. Furthermore, and perhaps related, AMPH also interacts with N-WASP, initiating actin polymerization. Human AMPH is 695 amino acids (aa) in length. It contains an N-terminal BAR domain (aa 24-240) that binds lipids, a central region that binds AP2 (aa 322-340) and clathrin (aa 347-386), and a C-terminal SH3 domain (aa 622-695) that binds proline-rich ligands. There is one known 108 kDa splice variant that shows a deletion of aa 425-466. Over aa 204-300, human AMPH shares 98% aa identity with mouse AMPH.

PRODUCT SPECIFIC NOTICES

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