Human/Mouse/Rat Parvalbumin α Alexa Fluor® 405-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5058V
100 µg

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat Parvalbumin α in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Parvalbumin α Ser2-Ser110 Accession # P20472
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.
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

Parvalbumin (Parvalbumin α) is a 12 kDa member of the parvalbumin family of Ca^{++}-binding proteins. In human, it is expressed in intrafusal muscle fibers, plus GABAergic interneurons and cerebellar Purkinje and basket cells. It presumably acts as a Ca^{++} buffer that shortens the duration of fiber contraction. Human Parvalbumin is 110 amino acids (aa) in length. It contains two EF-hand domains (aa 39-74 and 78-110) that bind calcium. There are three potential isoform variants. One shows an alternate start site at Met33, a second shows a six aa substitution for the C-terminal nine amino acids and a third shows a deletion of Gly99-Val100. Human Parvalbumin α is 51% aa identical to human Parvalbumin β and is 87% plus 92% aa identical to mouse and rat Parvalbumin, respectively.

PRODUCT SPECIFIC NOTICES

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