Human Carnosine Dipeptidase 1/CNDP1 Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 352213

Catalog Number: FAB24891V

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Carnosine Dipeptidase 1/CNDP1 in direct ELISAs.
Source	Monoclonal Mouse IgG_1 Clone # 352213
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Carnosine Dipeptidase 1/CNDP1 Pro28-His507 Accession # Q96KN2
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.*

Neutralization	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	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

The human CNDP1 gene encodes carnosine dipeptidase 1, a member of the M20 family of metalloproteases (1, 2). Also known as X-His dipeptidase, glutamate carboxypeptidase-like protein 2 (CPGL-2) or carnosinase 1 (CN1), CNDP1 is a secreted dipeptidase with a narrow specificity for Xaa-His dipeptides including those with Xaa = β-Ala (carnosine) and Xaa = γ-aminobutyric acid (homocarnosine), two naturally occurring dipeptides with potential neuroprotective and neurotransmitter fucntions in the brain. In comparison, a closely related protein known as CNDP2, CPGL or CN2, is a cytosolic nonspecific dipeptidase. CNDP1 consists of a signal peptide (residues 1 to 26) and the mature chain (residues 27 to 507). The amino acid sequence of human CNDP1 is 97%, 85%, 82% and 67% identical to that of chimpanzee, canine, mouse/rat and chicken.

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