Human GASP-2/WFIKKN Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 289802

Catalog Number: FAB21363T

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GASP-2/WFIKKN in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human GASP-1 is observed.
Source	Monoclonal Mouse IgG_{2B} Clone # 289802
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human GASP-2/WFIKKN Ala20-Asp548 Accession # Q96NZ8
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.
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

Growth and differentiation factor-associated serum protein-2 (GASP-2) cDNA encodes a 548 amino acid protein that contains a 19 amino acid signal sequence and is comprised of many conserved domains: WAP, follistatin/Kazal, immunoglobulin, two tandem Kunitz, and netrin (1). Based on the order of these conserved domains, GASP-2 is also known as WFIKKN (1). Another related protein which contains the same domain structure is called WFIKKNRP (WFIKKN-related protein), or GASP-1 (2, 3). WAP, follistatin, Kunitz and netrin domains are all implicated in protease inhibition, and the GASP proteins may be multivalent protease inhibitors (1, 4). GASP-1 and -2 show distinct expression patterns both in the developing fetus and the adult. In the developing fetus, GASP-2 is abundant in the lung, skeletal muscle and liver while GASP-1 expression is highest in the brain, skeletal muscle, thymus and kidney (3). In the adult, GASP-2 is expressed primarily in the pancreas, liver, and thymus while GASP-1 is in the ovary, testis, and brain (3). Further characterization shows that GASP-1 inhibits myostatin (GDF-8) and the highly related protein, GDF-11, but not Activin or TGF-β *in vitro* (2). By amino acid sequence, human GASP-2 shares 88% and 69% identity with canine/rat/mouse and chicken GASP-2, respectively, and 55% identity with human GASP-1.

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Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475