



Monoclonal Anti-human GASP-1/WFIKKNRP Antibody

ORDERING INFORMATION

Catalog Number: MAB20701

Clone: 288518

Lot Number: XNR01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS
with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human GASP-1

Immunogen: NS0-derived rhGASP-1

Ig class: mouse IgG_{2b}

Recommended Applications:
Western blot
Immunohistochemistry

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, NS0-derived, recombinant human GASP-1 (rhGASP-1; aa 35 - 576). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. GASP-1, also known as WFIKKNRP and WFIKKN2, is a serum protein that binds the TGF-β related protein, myostatin. GASP-1 contains WAP-type, follistatin-type, Kunitz-type, and NTR-type protease inhibitory domains.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody detects human GASP-1 in direct ELISAs and western blots. It does not cross-react with rhGASP-2.

Applications

Western Blot - This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human GASP-1. Using a colorimetric detection system, the detection limit for rhGASP-1 is approximately 5 ng/lane under non-reducing conditions. Use of this antibody under reducing conditions is not recommended. Chemiluminescent detection with WesternGlo Chemiluminescent Detection Substrate (R&D Systems, Catalog # AR004) will increase sensitivity by 5 to 50 fold.

Immunohistochemistry - This antibody was used at a concentration of 25 µg/mL with appropriate secondary reagents to detect GASP-1 in paraffin-embedded human cortex tissue sections. For chromogenic detection of labeling, the use of R&D Systems' Cell and Tissue Staining Kits (CTS Series) is recommended.

Optimal dilutions should be determined by each laboratory for each application.

For immunohistochemistry images, please refer to our website at <http://www.rndsystems.com/go/ihc>.