

Anti-GAS 6 Picoband Antibody

Catalog # ABO10094

Specification

Anti-GAS 6 Picoband Antibody - Product Information

ApplicationWB, IHC-PPrimary Accession014393HostRabbitReactivityHuman, Mouse, RatClonalityPolyclonalFormatLyophilizedDescriptionRabbit IgG polyclonal antibody for Growth arrest-specific protein 6(GAS6) detection. Tested withWB, IHC-P in Human; Mouse; Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-GAS 6 Picoband Antibody - Additional Information

Gene ID 2621

Other Names Growth arrest-specific protein 6, GAS-6, AXL receptor tyrosine kinase ligand, GAS6, AXLLG

Calculated MW 79677 MW KDa

Application Details Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, Human, By Heat

 Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human

Subcellular Localization Secreted .

Tissue Specificity Plasma. Isoform 1 and isoform 2 are widely expressed. Isoform 1 is the predominant form in spleen. .

Protein Name Growth arrest-specific protein 6

Contents Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

E.coli-derived human GAS 6 recombinant protein (Position: M488-S660). Human GAS 6 shares 79.7% and 81.4% amino acid (aa) sequence identity with mouse and rat GAS 6, respectively.



Purification Immunogen affinity purified.

Cross Reactivity No cross reactivity with other proteins.

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Anti-GAS 6 Picoband Antibody - Protein Information

Name GAS6 (HGNC:4168)

Synonyms AXLLG

Function

Ligand for tyrosine-protein kinase receptors AXL, TYRO3 and MER whose signaling is implicated in cell growth and survival, cell adhesion and cell migration. GAS6/AXL signaling plays a role in various processes such as endothelial cell survival during acidification by preventing apoptosis, optimal cytokine signaling during human natural killer cell development, hepatic regeneration, gonadotropin-releasing hormone neuron survival and migration, platelet activation, or regulation of thrombotic responses.

Cellular Location Secreted.

Tissue Location

Plasma. Isoform 1 and isoform 2 are widely expressed, isoform 1 being expressed at higher levels than isoform 2 in most tissues. Isoform 2 is the predominant form in spleen

Anti-GAS 6 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-GAS 6 Picoband Antibody - Images





Figure 1. Western blot analysis of GAS 6 using anti-GAS 6 antibody (ABO10094). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: mouse brain tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GAS 6 antigen affinity purified polyclonal antibody (Catalog # ABO10094) at 0.5 $\hat{1}$ /4g/mL overnight at 4ŰC, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for GAS 6 at approximately 75KD. The expected band size for GAS 6 is at 79KD.



Figure 2. IHC analysis of GAS 6 using anti- GAS 6 antibody (ABO10094).GAS 6 was detected in paraffin-embedded section of mouse spleen tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 11¹/₄g/ml rabbit anti-GAS 6 Antibody (ABO10094) overnight at 4ŰC. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37ŰC. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.





Figure 3. IHC analysis of GAS 6 using anti- GAS 6 antibody (ABO10094).GAS 6 was detected in paraffin-embedded section of rat spleen tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with $1\hat{l}_{4}$ g/ml rabbit anti- GAS 6 Antibody (ABO10094) overnight at 4ŰC. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37ŰC. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

Anti-GAS 6 Picoband Antibody - Background

Growth arrest-specific 6, also known as GAS6, is a human gene coding for the Gas6 protein. It is similar to the Protein S with the same domain organization and 43% amino acid identity. It was originally found as a gene upregulated by growth arrested fibroblasts. This gene is frequently overexpressed in many cancers and has been implicated as an adverse prognostic marker. Elevated protein levels are additionally associated with a variety of disease states, including venous thromboembolic disease, systemic lupus erythematosus, chronic renal failure, and preeclampsia.