Revision 5

Store at -20C

#67202

GAS6 (D3A3G) Rabbit mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P, IF-IC	H	Endogenous	78	Rabbit IgG	#Q14393	2621

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunohistochemistry (Paraffin)	1:50
Immunofluorescence (Immunocytochemistry)	1:200 - 1:400

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #82314.

Specificity/Sensitivity

GAS6 (D3A3G) Rabbit mAb recognizes endogenous levels of total GAS6 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human GAS6 protein.

Background

GAS6 (Growth Arrest Specific gene 6) is a vitamin K-dependent ligand of the TAM (Tyro3, Axl and MerTK) RTK family. It has an N-terminal Gla domain containing multiple Asp gamma-carboxylation sites, followed by four EGF repeats and two C-terminal LG domains. Vitamin K mediates multiple gamma-carboxylations of glutamic acid residues in the GAS6 Gla domain. These modifications are required for GAS6 to to activate its receptor (1,2). The two C-terminal LG (SHBG) domains form a V-shaped structure and provide a direct binding site for receptor interaction. Among the TAM family members, GAS6 has high affinity for Axl and low affinity for Tyro3 and MerTK. Ligand/receptor interaction activates multiple downstream signaling pathways such as PI3K/AKT, STAT/SOCS, PLC/FAK, and Grb2/RAS, and promotes cell survival, proliferation, migration and differentiation (3,4). GAS6 has been implicated in cancer development and immune-related disorders (inflammation and multiple sclerosis), and as such has been identified as a potential therapeutic target (3-6).

Background References

1. Hafizi, S. and Dahlbäck, B. (2006) *FEBS J* 273, 5231-44.
2. Davra, V. et al. (2016) *Cancers (Basel)* 8, 107.
3. van der Meer, J.H. et al. (2014) *Blood* 123, 2460-9.
4. Wu, G. et al. (2017) *Cell Death Dis* 8, e2700.
5. Rothlin, C.V. et al. (2015) *Annu Rev Immunol* 33, 355-91.
6. Bellan, M. et al. (2016) *Int J Mol Sci* 17, 1807.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

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Limited Uses

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