10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

RHOG Antibody
Catalog # ASC11858

Specification

RHOG Antibody - Product Information

Application	**WB, IHC**
Primary Accession	P84095
Other Accession	NP_001656, 46249393
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 21 kDa** **Observed: 23 kDa KDa**
Application Notes	**RHOG antibody can be used for detection of RHOG by Western blot at 1 - 2 µg/ml. Antibody can also be used for immunohistochemistry starting at 5 µg/mL.**

RHOG Antibody - Additional Information

Gene ID **391**

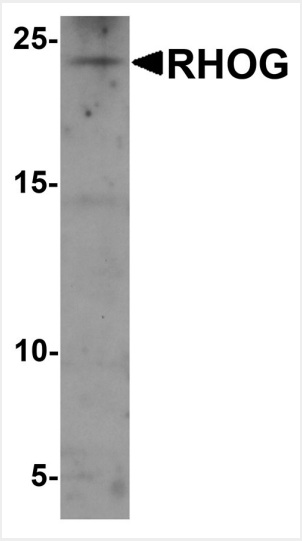
Target/Specificity
RHOG; RHOG antibody is human, mouse and rat reactive.

Reconstitution & Storage
RHOG antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.

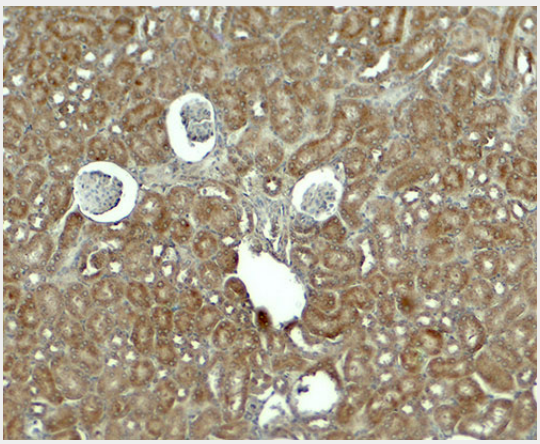
Precautions
RHOG Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

RHOG Antibody - Protein Information

Name RHOG



Western blot analysis of RHOG in human kidney tissue lysate with RHOG antibody at 1 µg/ml.



Immunohistochemistry of RHOG in mouse kidney tissue with RHOG antibody at 5 µg/ml.

RHOG Antibody - Background

The ras homolog family member G (RHOG), also known as rho-related GTP-binding protein, is a member of the Rho family of small GTPases, which cycle between inactive GDP-bound and active GTP-bound states and function as molecular switches in signal

Synonyms ARHG

Function
Required for the formation of membrane ruffles during macropinocytosis. Plays a role in cell migration and is required for the formation of cup-like structures during trans-endothelial migration of leukocytes. In case of Salmonella enterica infection, activated by SopB and ARHGEF26/SGEF, which induces cytoskeleton rearrangements and promotes bacterial entry.

Cellular Location
Cell membrane; Lipid-anchor; Cytoplasmic side

RHOG Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

transduction cascades (1). RHOG controls a pathway that requires the microtubule network and activates Rac1 and Cdc42Hs independently of their growth factor signaling pathway (2). RHOG is also involved in the transcriptional regulation of interferon-gamma and nuclear factor of activated T cells (NFAT) and the regulation of the actin skeleton in lymphocytes (3).

RHOG Antibody - References

Vincent S, Janteur P, and Fort P. Growth-regulated of rhoG, a new member of the ras homolog family. Mol. Cell Biol. 1992; 12:3138-48.
Gauthier-Rouviere C, Vignal E, Meriane M, et al. RhoG GTPase controls a pathway that independently activates Rac1 and Cdc42Hs. Mol. Biol. Cell 1998; 9:1379-94.
Vigorito E, Billadeu DD, Savoy D, et al. RhoG regulates gene expression and the actin skeleton in lymphocytes. Oncogene 2003; 22:330-42.