

Product datasheet

Anti-GIV antibody ab113890

[3 References](#) [2 Images](#)

Overview

Product name	Anti-GIV antibody
Description	Rabbit polyclonal to GIV
Host species	Rabbit
Tested applications	Suitable for: ELISA, ICC/IF, WB, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human GIV conjugated to keyhole limpet haemocyanin.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituent: 99% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab113890 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
WB		Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 216 kDa.
IHC-P		Use a concentration of 5 µg/ml.

Target

Function

Plays a role as a key modulator of the AKT-mTOR signaling pathway controlling the tempo of the process of newborn neurons integration during adult neurogenesis, including correct neuron positioning, dendritic development and synapse formation. Enhances phosphoinositide 3-kinase (PI3K)-dependent phosphorylation and kinase activity of AKT1/PKB, but does not possess kinase activity itself. Phosphorylation of AKT1/PKB thereby induces the phosphorylation of downstream effectors GSK3 and FOXO1/FKHR, and regulates DNA replication and cell proliferation (By similarity). Essential for the integrity of the actin cytoskeleton and for cell migration. Required for formation of actin stress fibers and lamellipodia. May be involved in membrane sorting in the early endosome.

Tissue specificity

Expressed ubiquitously.

Sequence similarities

Belongs to the CCDC88 family.

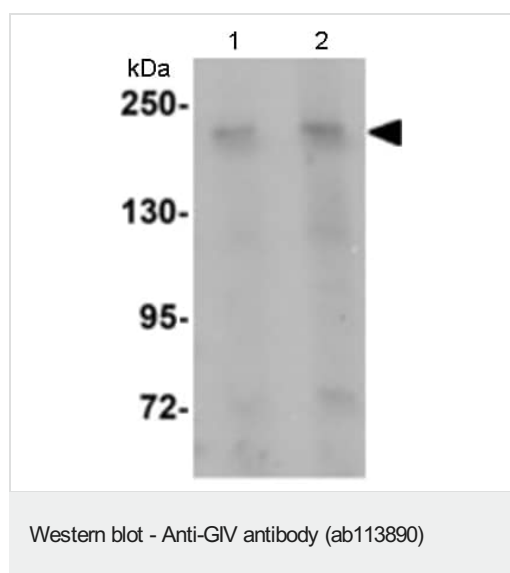
Post-translational modifications

Phosphorylation is induced by epidermal growth factor (EGF) in a phosphoinositide 3-kinase (PI3K)-dependent manner. Phosphorylation by AKT1/PKB is necessary for the delocalization from the cell membrane and for cell migration.

Cellular localization

Membrane. Cell membrane. Cytoplasm > cytosol. Cytoplasmic vesicle. Cell projection > lamellipodium. Localizes to the cell membrane through interaction with phosphoinositides.

Images

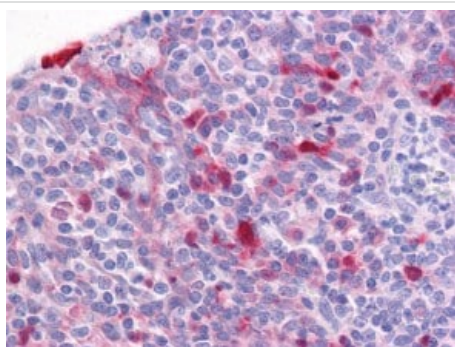


Lane 1 : Anti-GIV antibody (ab113890) at 1 µg/ml

Lane 2 : Anti-GIV antibody (ab113890) at 2 µg/ml

All lanes : Rat brain lysate

Predicted band size: 216 kDa



ab113890, at 5 µg/ml, staining GIV in Formalin-Fixed, Paraffin-Embedded Human tonsil tissue by immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GIV antibody (ab113890)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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