## **German Research Products - GRP GmbH**

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## **Product Datasheet**

## **GAPDH Polyconal Antibody GRP611**

**Description** Has both glyceraldehyde-3-phosphate dehydrogenase and

nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. Participates in nuclear events including transcription, RNA transport, DNA replication and apoptosis. Nuclear functions are probably due to the nitrosylase activity that mediates cysteine S-nitrosylation of nuclear target proteins such as SIRT1, HDAC2 and PRKDC. Modulates the organization and assembly of the cytoskeleton. Facilitates the CHP1-dependent microtubule and membrane associations through its ability to stimulate the binding of CHP1 to microtubules (By similarity). Glyceraldehyde-3-phosphate dehydrogenase is a key enzyme in glycolysis that catalyzes the first step of the pathway by converting D-glyceraldehyde 3-phosphate (G3P) into 3-phospho-D-glyceroyl phosphate. Component of the GAIT (gamma interferon-activated inhibitor of translation) complex which mediates interferon-gamma-induced transcript-selective translation inhibition in inflammation processes. Upon interferon-gamma treatment assembles into the GAIT complex which binds to stem loop-containing GAIT elements

in the 3'-UTR of diverse inflammatory mRNAs (such as

ceruplasmin) and suppresses their translation.

Species/Host Rabbit

Reactivity Human, Mouse, Rat

Conjugation Unconjugated

Tested Applications WB

Immunogen Recombinant full length human GAPDH

Form/Appearance Aqueous buffered solution containing 1% BSA, 50% glycerol and

0.09% sodium azide.

Concentration 1ug/ul

Storage Store at -20°C for 12 months.

**Note** For research use only.

**Isotype** IgG

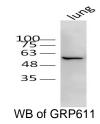
**Clonality** Polyclonal

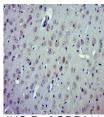
**Purity** Purified by Protein A.

Uniprot ID P04406

Entrez 2597

**Dilution Range** WB: 1:300-1000





IHC-P of GRP611