

**ARHGAP22 Polyclonal Antibody**

|                              |   |
|------------------------------|---|
| <b>Catalog No :</b>          | YT0318  |
| <b>Reactivity :</b>          | Human;Mouse   |
| <b>Applications :</b>        | WB;IHC;IF;ELISA   |
| <b>Target :</b>              | ARHGAP22  |
| <b>Gene Name :</b>           | ARHGAP22  |
| <b>Protein Name :</b>        | Rho GTPase-activating protein 22  |
| <b>Human Gene Id :</b>       | 58504   |
| <b>Human Swiss Prot No :</b> | Q7Z5H3  |
| <b>Mouse Swiss Prot No :</b> | Q8BL80  |
| <b>Immunogen :</b>           | The antiserum was produced against synthesized peptide derived from human RHG22. AA range:565-614                     |
| <b>Specificity :</b>         | ARHGAP22 Polyclonal Antibody detects endogenous levels of ARHGAP22 protein.   |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG  |
| <b>Dilution :</b>            | WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200  |
| <b>Purification :</b>        | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| <b>Concentration :</b>       | 1 mg/ml   |
| <b>Storage Stability :</b>   | -15°C to -25°C/1 year(Do not lower than -25°C)  |
| <b>Observed Band :</b>       | 77kD  |

**Background :**

This gene encodes a member of the GTPase activating protein family which activates a GTPase belonging to the RAS superfamily of small GTP-binding proteins. The encoded protein is insulin-responsive, is dependent on the kinase Akt and requires the Akt-dependent 14-3-3 binding protein which binds sequentially to two serine residues. The result of these interactions is regulation of cell motility. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011],

**Function :**

function:Rho GTPase-activating protein involved in the signal transduction pathway that regulates endothelial cell capillary tube formation during angiogenesis. Acts as a GTPase activator for the RAC1 by converting it to an inactive GDP-bound state. Inhibits RAC1-dependent lamellipodia formation. May also play a role in transcription regulation via its interaction with VEZF1, by regulating activity of the endothelin-1 (EDN1) promoter.,similarity:Contains 1 PH domain.,similarity:Contains 1 Rho-GAP domain.,subcellular location:Mainly cytoplasmic. Some fraction is nuclear.,subunit:Interacts with VEZF1.,

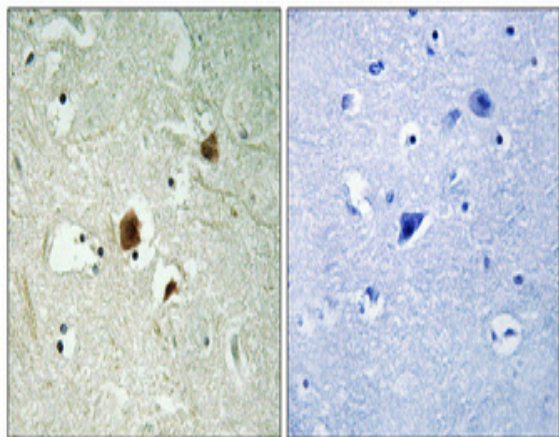
**Subcellular Location :**

Cytoplasm . Nucleus . Mainly cytoplasmic. Some fraction is nuclear (By similarity). .

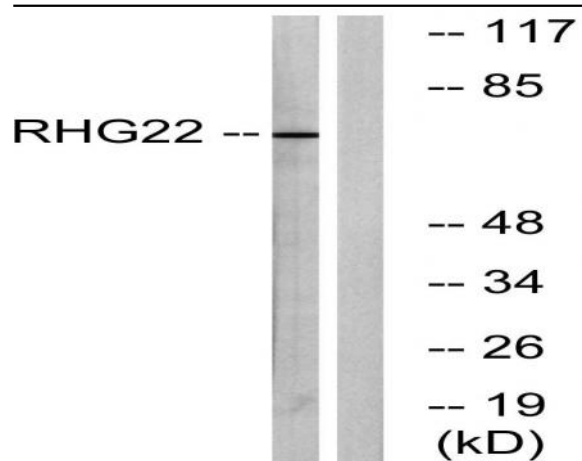
**Expression :**

Brain,Erythroleukemia,Lung,

## Products Images



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.



Western blot analysis of lysates from K562 cells, using RHG22 Antibody. The lane on the right is blocked with the synthesized peptide.