


Product datasheet

Anti-PI 3 Kinase p55 gamma antibody ab235234

5 Images

Overview

| | |
|----------------------------|---|
| Product name | Anti-PI 3 Kinase p55 gamma antibody |
| Description | Goat polyclonal to PI 3 Kinase p55 gamma |
| Host species | Goat |
| Tested applications | Suitable for: WB, IHC-P, ICC/IF |
| Species reactivity | Reacts with: Mouse, Human Predicted to work with: Rat, Cow  |
| Immunogen | Synthetic peptide. This information is considered to be commercially sensitive. |
| Positive control | WB: PI 3 Kinase p55 gamma overexpressing HEK-293T whole cell lysate; mouse testis lysate. IHC-P: Human tonsil tissue. ICC/IF: A431 cells. |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| Storage buffer | Preservative: 0.01% Sodium azide Constituent: PBS |
| Purity | Affinity purified |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

Our [Abpromise guarantee](#) covers the use of **ab235234** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

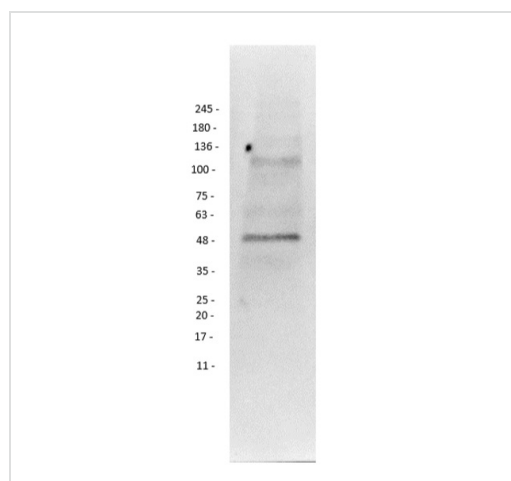
| Application | Abreviews | Notes |
|-------------|-----------|---|
| WB | | 1/1000. Predicted molecular weight: 54 kDa. |

| Application | Abreviews | Notes |
|-------------|-----------|--|
| IHC-P | | 1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |
| ICC/IF | | Use a concentration of 15 µg/ml. |

Target

| | |
|------------------------------|--|
| Function | Binds to activated (phosphorylated) protein-tyrosine kinases through its SH2 domain and regulates their kinase activity. During insulin stimulation, it also binds to IRS-1. |
| Tissue specificity | Highest levels in brain and testis. Lower levels in adipose tissue, kidney, heart, lung and skeletal muscle. |
| Sequence similarities | Belongs to the PI3K p85 subunit family. Contains 2 SH2 domains. |

Images



Western blot - Anti-PI 3 Kinase p55 gamma antibody (ab235234)

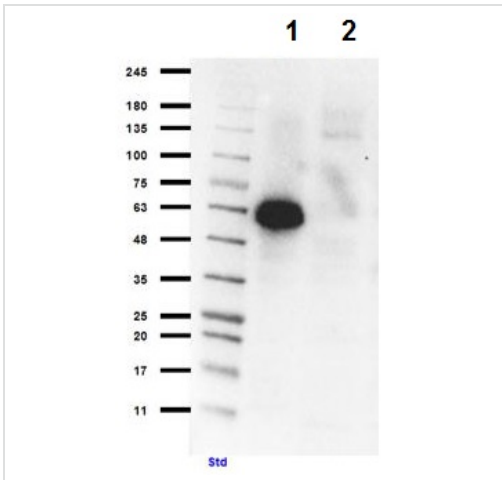
Anti-PI 3 Kinase p55 gamma antibody (ab235234) at 1/1000 dilution + Mouse testis lysate

Secondary

Goat IgG-HRP at 1/5000 dilution

Predicted band size: 54 kDa

Exposure time: 1 second



Western blot - Anti-PI 3 Kinase p55 gamma antibody (ab235234)

All lanes : Anti-PI 3 Kinase p55 gamma antibody (ab235234) at 1/1000 dilution

Lane 1 : PI 3 Kinase P55 gamma overexpressing HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

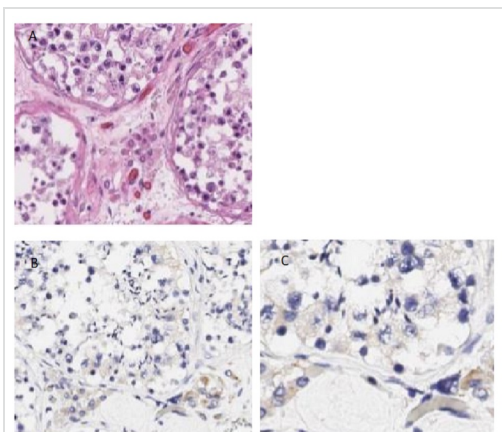
Lane 2 : Empty vector HEK-293T lysate

Secondary

All lanes : Goat IgG HRP at 1/40000 dilution

Predicted band size: 54 kDa

Exposure time: 75 seconds



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PI 3 Kinase p55 gamma antibody (ab235234)

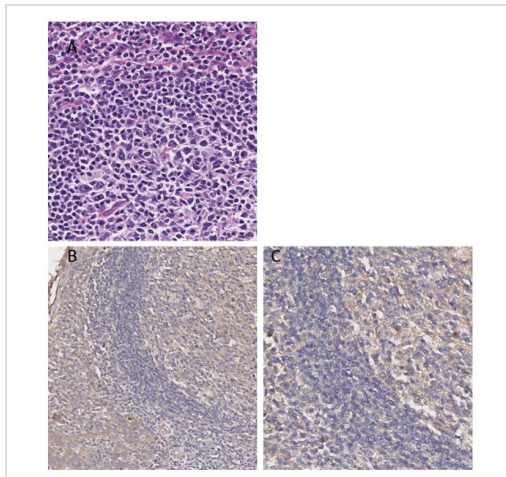
Paraffin-embedded human tonsil tissue stained for PI 3 Kinase p55 gamma using ab235234 at 1/100 dilution for 30 minutes at room temperature, in immunohistochemical analysis. Secondary antibody was Donkey anti-Goat (HRP) (Ready to use). Counterstained with hematoxylin.

HIER using Citrate Buffer for 20min.

Panel A) Human testis H&E stain.

Panel B) ab235234 staining at 20X.

Panel C) ab235234 staining at 40X.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PI 3 Kinase p55 gamma antibody (ab235234)

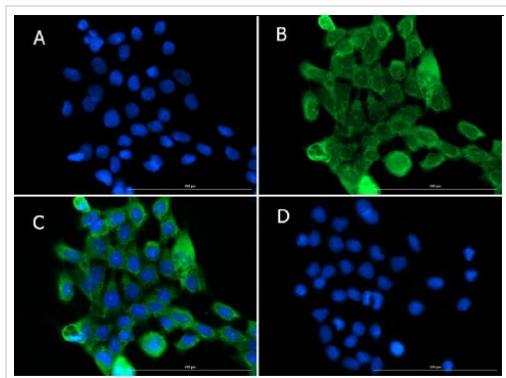
Paraffin-embedded human tonsil tissue stained for PI 3 Kinase p55 gamma using ab235234 at 1/100 dilution for 30 minutes at room temperature, in immunohistochemical analysis. Secondary antibody was Donkey anti-Goat (HRP) 4 µg/ml for 20 minutes at room temperature. Counterstained with hematoxylin.

HIER using Citrate Buffer for 20min.

Panel A) Human tonsil H&E stain.

Panel B) ab235234 staining at 20X.

Panel C) ab235234 staining at 40X.



Immunocytochemistry/ Immunofluorescence - Anti-PI 3 Kinase p55 gamma antibody (ab235234)

100% methanol-fixed, 0.3% Triton X-100 permeabilized A431 (human epidermoid carcinoma cell line) cells stained for PI 3 Kinase p55 gamma (Green) using ab235234 at 15 µg/ml overnight at 4°C. The secondary antibody was Donkey anti-Goat IgG DiLight™ 488 Conjugated antibody at 15 µg/ml for 1 hour at room temperature. The nuclear counterstain was DAPI (Blue).

(A) DAPI

(B) ab235234 + Secondary

(C) Merge A+B

(D) Secondary only

Expected localization: Cytosol (UniProt), Nucleoplasm (HPA) – distinct punctate staining in nucleus could indicate nucleoplasm.

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