Product datasheet

Anti-PI 3 Kinase p85 alpha (phospho Y607) antibody ab182651

Overview

Product name: Anti-PI 3 Kinase p85 alpha (phospho Y607) antibody

Description: Rabbit polyclonal to PI 3 Kinase p85 alpha (phospho Y607)

Host species: Rabbit

Specificity: ab182651 detects endogenous level of PI 3 Kinase p85 only when phosphorylated at Tyrosine 607.

Tested applications: Suitable for: IHC-P, WB

Species reactivity: Reacts with: Mouse, Rat, Human

Immunogen: Synthetic peptide corresponding to Human PI 3 Kinase p85 alpha (phospho Y607) conjugated to keyhole limpet haemocyanin. Peptide sequence around phosphorylation site of Tyrosine 607 (D-Q-Y(p)-S-L) derived from Human PI3K p85. Database link: P27986

Positive control: Rat liver extract.

Properties

Form: Liquid


Storage buffer: pH: 7.4
Preservative: 0.02% Sodium azide
Constituents: 49% PBS, 50% Glycerol, 0.88% Sodium chloride

Without Mg²⁺ and Ca²⁺

Purity: Immunogen affinity purified

Purification notes: ab182651 was purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.

Clonality: Polyclonal

Isotype: IgG
Function
Binds to activated (phosphorylated) protein-Tyr kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane. Necessary for the insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues.

Tissue specificity
Isoform 2 is expressed in skeletal muscle and brain, and at lower levels in kidney and cardiac muscle. Isoform 2 and isoform 4 are present in skeletal muscle (at protein level).

Sequence similarities
Belongs to the PI3K p85 subunit family.
Contains 1 Rho-GAP domain.
Contains 2 SH2 domains.
Contains 1 SH3 domain.

Domain
The SH3 domain mediates the binding to CBLB, and to HIV-1 Nef.

Post-translational modifications
Polyubiquitinated in T-cells by CBLB; which does not promote proteasomal degradation but impairs association with CD28 and CD3Z upon T-cell activation.
Phosphorylated. Dephosphorylated by PTPRJ.

Images

**All lanes**: Anti-PI 3 Kinase p85 alpha (phospho Y607) antibody (ab182651) at 1/750 dilution

**Lane 1**: MCF-7 cell lysate with N-Peptide
**Lane 2**: MCF-7 cell lysate
**Lane 3**: MCF-7 cell lysate with P-Peptide
**Lane 4**: Mouse brain tissue lysate with N-Peptide
**Lane 5**: Mouse brain tissue lysate
**Lane 6**: Mouse brain tissue lysate with P-Peptide
**Lane 7**: Rat brain tissue lysate with N-Peptide
**Lane 8**: Rat brain tissue lysate
**Lane 9**: Rat brain tissue lysate with P-Peptide

Lysates/proteins at 40 µg per lane.
Predicted band size: 84 kDa

Observed band size: 80 kDa

why is the actual band size different from the predicted?

Exposure time: 3 minutes

Immunohistochemistry of human brain tissue labeling PI 3 Kinase p85 (phospho Y607) with ab182651 at 1/200.

All lanes : Anti-PI 3 Kinase p85 alpha (phospho Y607) antibody (ab182651) at 1/500 dilution

Lane 1 : Rat liver extract
Lane 2 : Rat liver extract with antigen-specific peptide

Predicted band size: 84 kDa

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