


Product datasheet

Anti-GRK1 (phospho S21) antibody ab74033

2 Images

Overview

Product name	Anti-GRK1 (phospho S21) antibody
Description	Rabbit polyclonal to GRK1 (phospho S21)
Host species	Rabbit
Specificity	ab74033 detects endogenous levels of GRK1 only when phosphorylated at serine 21.
Tested applications	Suitable for: WB, ELISA, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic phosphopeptide derived from human GRK1 around the phosphorylation site of serine 21 (R-G-S ^P -F-D).
Positive control	COS7 cell extracts treated with TNF (20ng/ml, 5mins) and human brain tissue.

Properties

Form	Liquid
Storage instructions	Frozen Stock (-20C). Shelf life 12 months.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg ²⁺ and Ca ²⁺), 150mM Sodium chloride, pH 7.4
Purity	Immunogen affinity purified
Purification notes	ab74033 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab74033** in the following tested applications.

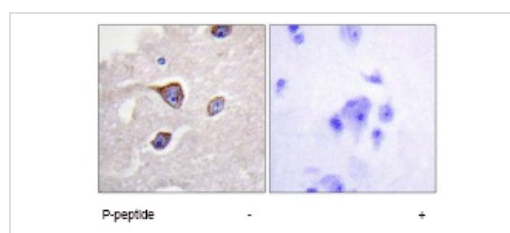
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Detects a band of approximately 63 kDa (predicted molecular weight: 63 kDa).
ELISA		1/10000.
IHC-P		1/50 - 1/100.

Target

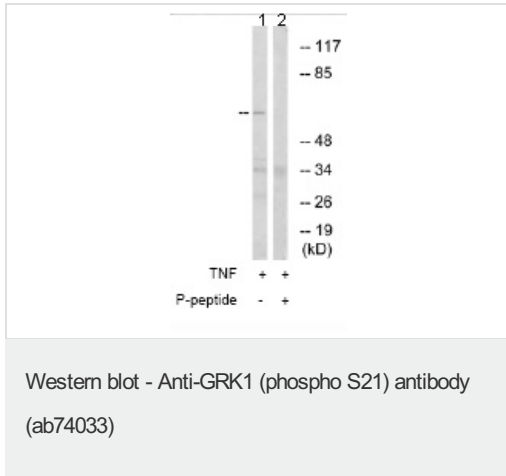
Function	Retina-specific kinase involved in the signal turnoff via phosphorylation of rhodopsin (RHO), the G protein- coupled receptor that initiates the phototransduction cascade. This rapid desensitization is essential for scotopic vision and permits rapid adaptation to changes in illumination.
Tissue specificity	Retinal-specific. Expressed in rods and cones cells.
Involvement in disease	Night blindness, congenital stationary, Oguchi type 2
Sequence similarities	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. GPRK subfamily. Contains 1 AGC-kinase C-terminal domain. Contains 1 protein kinase domain. Contains 1 RGS domain.
Post-translational modifications	Autophosphorylated, Ser-21 is a minor site of autophosphorylation compared to Ser-491 and Thr-492 (By similarity). Phosphorylation at Ser-21 is regulated by light and activated by cAMP. Farnesylation is required for full activity.
Cellular localization	Membrane.

Images



ab74033 at 1/50 dilution staining GRK1 in human brain by Immunohistochemistry, Paraffin-embedded tissue, in the absence or presence of the immunising peptide.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRK1 (phospho S21) antibody (ab74033)



All lanes : Anti-GRK1 (phospho S21) antibody (ab74033) at 1/500 dilution

Lane 1 : COS7 cell extracts, treated with TNF (20ng/ml, 5mins)

Lane 2 : COS7 cell extracts, treated with TNF (20ng/ml, 5mins) with immunising peptide

at 10 µg

Lysates/proteins at 30 µg per lane.

Predicted band size: 63 kDa

Observed band size: 63 kDa

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