

phospho-ERK1 (Thr202/Tyr204) + ERK2 (Thr183/Tyr185) Rabbit pAb

Catalog Number: bs-1646R

Target Protein: phospho-ERK1 (Thr202/Tyr204) + ERK2 (Thr183/Tyr185)

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1µg /test), ICC/IF (1:100)

Reactivity: Human, Mouse, Rat (predicted:Rabbit, Pig, Cow, Chicken, Dog, GuineaPig, Horse)

Predicted MW: 41 kDa

Source: KLH conjugated Synthesised phosphopeptide derived from mouse ERK1/2 around the phosphorylation site of Thr202/Tyr204: FL(p-T)E(p-Y)VA.

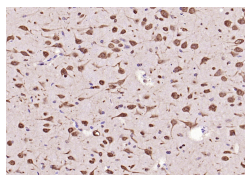
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

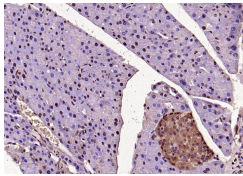
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The protein encoded by this gene is a member of the MAPkinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms have been described. [provided by RefSeq, Jul 2008].

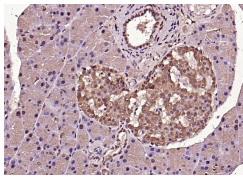
VALIDATION IMAGES



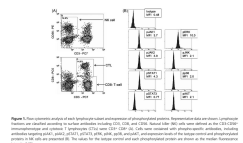
Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-ERK1 (Thr202/Tyr204) + ERK2 (Thr183/Tyr185)) Polyclonal Antibody, Unconjugated (bs-1646R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-ERK1 (Thr202Tyr204) + ERK2 (Thr183Tyr185)) Polyclonal Antibody, Unconjugated (bs-1646R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-ERK1 (Thr202Tyr204) + ERK2 (Thr183Tyr185)) Polyclonal Antibody, Unconjugated (bs-1646R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



cells: human

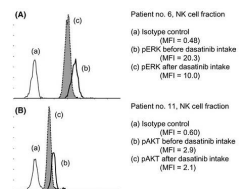
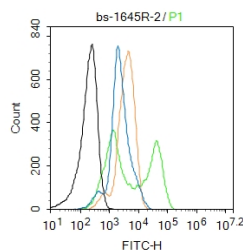


Figure 6. Representative histograms showing expression changes of pERK (A) and pAKT (B) in the natural killer (NK) cell fraction.

From 《Cancer Medicine》 (2016.6): PublitonDirect effect of dasatinib on signal transduction pathways associated with a rapid mobilization of cytotoxic lymphocytes , IF:2.5 Author: Noriyoshi Iriyama, Yoshihiro Hatta & Masami Takei Division of Hematology and Rheumatology, Department of Medicine, Nihon University School of Medicine, Tokyo, Japan



Blank control: MCF7. Primary Antibody (green line): Rabbit Anti-Phospho-ERK1 (Thr202/Tyr204) + ERK2 (Thr183/Tyr185) antibody (bs-1646R) Dilution: 2μg /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

PRODUCT SPECIFIC PUBLICATIONS

[IF=4.61] Yue H et al. Gestational exposure to PM2.5 impairs vascularization of the placenta. Sci Total Environ. 2019 May 15;665:153-161.

WB ; Mouse . 30772544

[IF=3.8] Junliang Xia. et al. GH inhibits ALV-J replication and restricts cell cycle by activating PI3K/Akt signaling pathway. POULTRY SCI.

2024 Nov;;104514 ; . 39586129

[IF=3.33] Wang, Jianping, et al. "Bone Marrow Mononuclear Cell Transplantation Promotes Therapeutic Angiogenesis via Upregulation of the VEGF-VEGFR2 Signaling Pathway in a Rat Model of Vascular Dementia." Behavioural Brain Research (2014). WB ; ="Rat" . 24589546

[IF=3.36] Iriyama et al. Direct effect of dasatinib on signal transduction pathways associated with a rapid mobilization of cytotoxic lymphocytes. (2016) Cancer.Med. 5:3223-3234 FCM,Other ; Human . 27726309

[IF=3.4] Hao Huang. et al. MAP4K4 is involved in the neuronal development of retinal photoreceptors. EXP EYE RES. 2023 Aug;233:109524 IF,ICC,WB ; Mouse . 37290629