bs-1646R **[Primary Antibody]**

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

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

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

Immunogen: 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

Concentration: 1mg/ml

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 extracellularsignal-regulated kinases (ERKs), act in a signaling cascade thatregulates various cellular processes such as proliferation,differentiation, and cell cycle progression in response to avariety of extracellular signals. This kinase is activated byupstream kinases, resulting in its translocation to the nucleuswhere it phosphorylates nuclear targets. Alternatively splicedtranscript variants encoding different protein isoforms have beendescribed. [provided by RefSeq, Jul 2008].

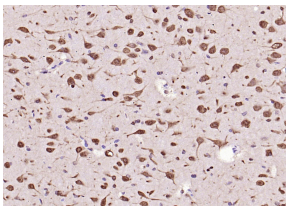
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg /test)
ICC/IF (1:100)

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

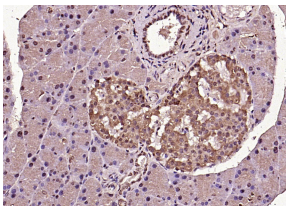
Predicted MW.: 41 kDa

Subcellular Location: Nucleus

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 (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) instructionsand 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) instructionsand DAB staining.

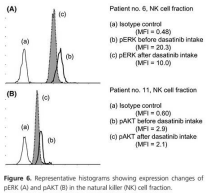


Figure 6. Representative histograms showing expression changes of pERK (A) and pAKT (B) in the natural killer (NK) cell fraction.

From 《Cancer Medicine》(2016.6): PublitionDirect 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

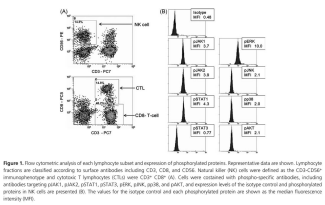


Figure 1. Flow cytometric analysis of each lymphocyte subset and expression of phosphorylated proteins. Representative data are shown. Lymphocyte fractions are classified according to surface antibodies including CD3, CD8, and CD56. Natural killer (NK) cells were defined as the CD3-CD56+ immunophenotype and cytotoxic T lymphocytes (CTLs) were CD3+ CD8+ (A). Cells were costained with phospho-specific antibodies, including antibodies targeting pJAK1, pJAK2, pSTAT1, pSTAT3, pERK, pMK, pp38, and pAKT, and expression levels of the isotype control and phosphorylated proteins in NK cells are presented (B). The values for the isotype control and each phosphorylated protein are shown as the median fluorescence intensity (MFI).

cells: human

SELECTED CITATIONS

- **[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