## bs-3016R

## [ Primary Antibody ]

# phospho-ERK1/2 (Thr202 + Tyr204) Rabbit pAb

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DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Target: ERK1/2 (Thr202 + Tyr204)

**Immunogen:** KLH conjugated Synthesised phosphopeptide derived from mouse

p44/42 MAPK 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 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 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 (1:100-500)

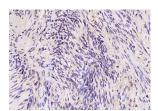
Reactivity: Human, Mouse, Rat

(predicted: Rabbit, Pig, Cow, Chicken, Dog, GuineaPig, Horse)

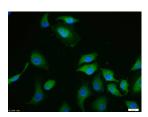
**Predicted** 41 kDa MW.:

Subcellular Location: Nucleus

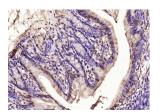
## **VALIDATION IMAGES** -



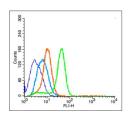
Paraformaldehyde-fixed, paraffin embedded (human Glioblastoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-ERK12 (Thr202 + Tyr204)) Polyclonal Antibody, Unconjugated (bs-3016R) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



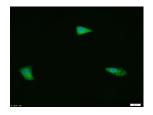
Tissue/cell: Hela cell: 4% Paraformaldehydefixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum,



Paraformaldehyde-fixed, paraffin embedded (rat colon); 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-ERK12 (Thr202+ Tyr204)) Polyclonal Antibody, Unconjugated (bs-3016R) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control (blue line): U251 (fixed with 2% paraformaldehyde (10 min)and then permeabilized with 0.1% PBS-Tween for 20 min



Tissue/cell: HUVEC cell: 4% Paraformaldehydefixed; Triton X-100 at room temperature for 20 min: Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (phospho-ERK1/2 (Thr202 + Tvr204)) polyclonal Antibody, Unconjugated (bs-3016R) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

C-0005) at 37°C for 20 min; Antibody incubation with (phospho-ERK1/2 (Thr202 + Tyr204)) polyclonal Antibody, Unconjugated (bs-3016R) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

at room temperature). Primary Antibody (green line): Rabbit Anti-phospho-ERK12 (Thr202 + Tyr204) antibody (bs-3016R),Dilution: 3µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE,Dilution: 1µg /test.

### - SELECTED CITATIONS -

- [IF=14.528] Dejun Xu. et al. Melatonin protects mouse testes from palmitic acid induced lipotoxicity by attenuating oxidative stress and DNA damage in a SIRT1 dependent manner. J Pineal Res. 2020 Nov;69(4):e12690 WB; Mouse. 32761924
- [IF=14.7] Li Yin. et al. Macrophage P2Y6R activation aggravates psoriatic inflammation through IL-27-mediated Th1 responses. ACTA PHARM SIN B. 2024 Jun;: WB; Mouse. 10.1016/j.apsb.2024.06.008
- [IF=11] Hao Li. et al. Somatic PDGFRB activating variants promote smooth muscle cell phenotype modulation in intracranial fusiform aneurysm. J BIOMED SCI. 2024 Dec;31(1):1-17 IF; MOUSE. 38741091
- [IF=10.633] Fanglin Wang. et al. Adipose-derived stem cells with miR-150-5p inhibition laden in hydroxyapatite/tricalcium phosphate ceramic powders promote osteogenesis via regulating Notch3 and activating FAK/ERK and RhoA. ACTA BIOMATER. 2022 Oct;: WB,IF; Human. 36206975
- [IF=9.078] Tzu-Hsiang Lin. et al. A bilineage thermosensitive hydrogel system for stimulation of mesenchymal stem cell differentiation and enhancement of osteochondral regeneration. Compos Part B-Eng. 2022 Jan;:109614 ICC; Rabbit. 10.1016/j.compositesb.2022.109614