bs-5484R **[Primary Antibody]**

phospho-ERK5 (Ser496) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5598 **SWISS:** Q13164

Target: phospho-ERK5 (Ser496)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human ERK5 around the phosphorylation site of Ser496: GP(p-S)AP.

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 MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is specifically activated by mitogen-activated protein kinase kinase 5 (MAP2K5/MEK5). It is involved in the downstream signaling processes of various receptor molecules including receptor type kinases, and G protein-coupled receptors. In response to extracelluar signals, this kinase translocates to cell nucleus, where it regulates gene expression by phosphorylating, and activating different transcription factors. Four alternatively spliced transcript variants of this gene encoding two distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

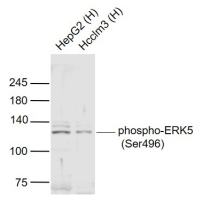
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:100)

Reactivity: Human (predicted: Mouse, Rat)

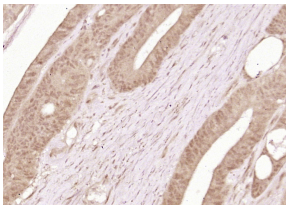
Predicted MW.: 90 kDa

Subcellular Location: Cytoplasm ,Nucleus

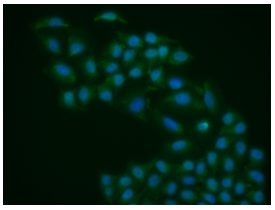
VALIDATION IMAGES



Sample: Lane 1: HepG2 (Human) Cell Lysate at 30 ug Lane 2: Hcclm3 (Human) Cell Lysate at 30 ug Primary: Anti- phospho-ERK5 (Ser496) (bs-5484R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 115 kD Observed band size: 115 kD



Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); 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-ERK5 (Ser496)) Polyclonal Antibody, Unconjugated (bs-5484R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Hela cell; 4% Paraformaldehyde-fixed; 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-ERK5 (Ser496)) polyclonal Antibody, Unconjugated (bs-5484R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

SELECTED CITATIONS

- **[IF=8.4]** Peidong You. et al. Pro-efferocytosis biomimetic nanocomplexes for targeted atherosclerosis therapy through promoting macrophage re-polarization and inhibiting senescence. MATER DESIGN. 2023 Sep;:112316 WB ;Mouse. 10.1016/j.matdes.2023.112316

- **[IF=7.36]** Ye F et al. Whole exome and target sequencing identifies MAP2K5 as novel susceptibility gene for familial non-medullary thyroid carcinoma. Int J Cancer. 2019 Mar 15;144(6):1321-1330. ICC,WB ;Human. 30132833
- **[IF=5.378]** Zhuang et al. CDK5 functions as a tumor promoter in human colorectal cancer via modulating the ERK5-AP-1 axis. (2016) Cell.Death.Di. 7:e2415 IHC ;Mouse. 27735944
- **[IF=5.162]** Lei Zhao. et al. Proteomic analysis reveals the molecular mechanism of Hippophae rhamnoides polysaccharide intervention in LPS-induced inflammation of IPEC-J2 cells in piglets. Int J Biol Macromol. 2020 Dec;164:3294 WB ;Pig. 32888998
- **[IF=2.4]** Jingyi Niu. et al.The important role of TLR2/MyD88/JNK in regulating the pathogenesis and inflammation induced by pseudorabies virus in mice..VETERINARY MICROBIOLOGY.2025 Mar 27:304:110496. Western blot ;Mouse. 40156971