

bs-5486R**[Primary Antibody]****phospho-ERK5 (Ser731+Thr733) Rabbit pAb****BioSS**
ANTIBODIES

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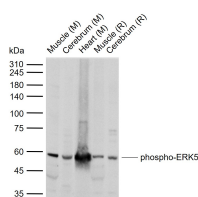
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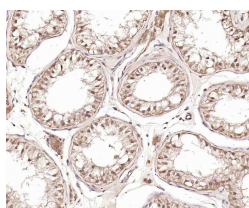
400-901-9800

DATASHEET**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 5598**SWISS:** Q13164**Target:** ERK5 (Ser731+Thr733)**Immunogen:** KLH conjugated Synthesised phosphopeptide derived from human ERK5 around the phosphorylation site of Ser731+Thr733: VF(p-S)G(p-T)PK.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

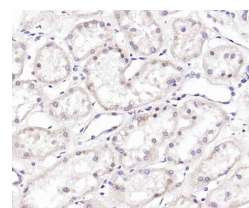
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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 extracellular 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)**Reactivity:** Human, Mouse, Rat
(predicted: Rabbit, Cow, Dog)**Predicted MW.:** 90 kDa**Subcellular Location:** Cytoplasm ,Nucleus**VALIDATION IMAGES**

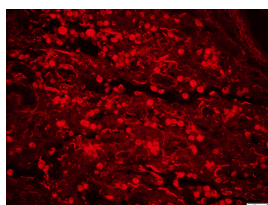
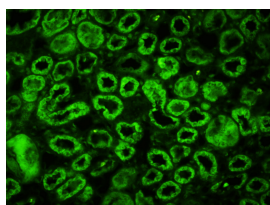
Sample: Lane 1: Mouse Muscle tissue lysates
 Lane 2: Mouse Cerebrum tissue lysates Lane 3:
 Mouse Heart tissue lysates Lane 4: Rat Muscle
 tissue lysates Lane 5: Rat Cerebrum tissue
 lysates Primary: Anti-phospho-ERK5 (Ser731+Thr733) (bs-5486R) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 90 kDa
 Observed band size: 59 kDa



Paraformaldehyde-fixed, paraffin embedded (human testis); 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; Incubation with (phospho-ERK5 (Ser731+Thr733)) Polyclonal Antibody, Unconjugated (bs-5486R) 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 (human kidney); 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; Incubation with (phospho-ERK5 (Ser731+Thr733)) Polyclonal Antibody, Unconjugated (bs-5486R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Tissue/cell: human kidney tissue;4%
 Paraformaldehyde-fixed and paraffin-
 embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min;
 Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-phospho-
 ERK5(Ser731+Thr733) Polyclonal Antibody, FITC conjugated (bs-5486R-FITC) 1:200, used at 1:200 dilution for 40 minutes at 37 ℃.

Tissue/cell: human lung carcinoma;4%
 Paraformaldehyde-fixed and paraffin-
 embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min;
 Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-phospho-
 ERK5(Ser731+Thr733) Polyclonal Antibody, Unconjugated(bs-5486R) 1:200, overnight at 4 ℃; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated (bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37 ℃.

— SELECTED CITATIONS —

- **[IF=7.59]** Muzhe Li. et al. STS load PCL- MECM based hydrogel hybrid scaffold promote meniscal regeneration via modulating macrophage phenotype polarization. BIOMATER SCI-UK. 2023 Jan;; WB ;Rabbit. 10.1039/D2BM00526C
- **[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=5.1]** Yang Ran. et al. Over-expression of miR-3584-5p Represses Nav1.8 Channel Aggravating Neuropathic Pain caused by Chronic Constriction Injury. MOL NEUROBIOL. 2023 Jun;;1-19 IF,ICC,WB ;Rat,Human. 37280408