bs-2531R **[Primary Antibody]**

NES/Kallikrein 10 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5655 **SWISS:** O43240

Target: NES/Kallikrein 10

Immunogen: KLH conjugated synthetic peptide derived from human KLK10: 65-165/276.

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: Kallikrein 10 is a trypsin-like serine proteinase. Originally described from a subtractive library looking for genes that were down-regulated in breast cancer, kallikrein 10 was thought to be epithelial cell specific. Kallikrein 10 is reported to be up regulated in pancreatic cancer and ovarian cancer, but down regulated in testicular cancer and breast cancer, perhaps due to differential hormonal regulation, or tissue specificities. Breast cancer patients that had elevated kallikrein 10 had a worse prognosis, leading to speculation that kallikrein 10 might be protective in breast cancer, similar to the argument put forth for kallikrein 3 in prostate cancer. Kallikrein 10 is found in high levels in the pancreas and in lower levels in the tonsils, esophagus, skin, brain, testis and ovary. Biological fluids (breast milk, serum, seminal plasma, urine) contain kallikrein 10, the highest levels found in milk. The cerebral spinal fluid (CSF) contains Kallikrein 10, and was reported to be elevated in patients with Alzheimer’ s disease. Endogenous inhibitors include kallistatin, protein-C inhibitor and 1-proteinase inhibitor, although Kallikrein 10 can be found complexed to a number of different proteinase inhibitors.

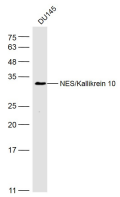
Applications: **WB** (1:500-2000)

Reactivity: Human (predicted: Mouse, Rat, Cow)

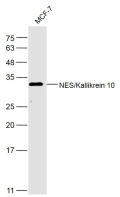
Predicted MW.: 31 kDa

Subcellular Location: Secreted

VALIDATION IMAGES



Sample: DU145(Human) Cell Lysate at 30 ug Primary: Anti-NES/Kallikrein 10 (bs-2531R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 31 kD Observed band size: 31 kD



Sample: MCF-7(Human) Cell Lysate at 30 ug Primary: Anti-NES/Kallikrein 10 (bs-2531R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 31 kD Observed band size: 31 kD

SELECTED CITATIONS

- **[IF=3.7]** Wei Cheng. et al. LRG1 promotes the apoptosis of pulmonary microvascular endothelial cells through KLK10 in chronic obstructive pulmonary disease. TOB INDUC DIS. 2024; 22: 10.18332/tid/186404 IHC,IF,WB ;Human,Mouse. 38707515
- **[IF=2.559]** Cao XY et al. Aberrant upregulation of KLK10 promotes metastasis via enhancement of EMT and

FAK/SRC/ERK axis in PDAC.Biochem Biophys Res Commun. 2018 May 15;499(3):584-593. IHC,WB ;Mouse&Human. 29621546

- **[IF=2.3]** Li, Lei, et al. "Upregulated KLK10 inhibits esophageal cancer proliferation and enhances cisplatin sensitivity in vitro." Oncology Reports. WB ;="". 26479703
- **[IF=0]** Wang et al. Chemoprevention activity of dipyridamole in the MMTV-PyMT transgenic mouse model of breast cancer. (2013) Cancer.Prev.Res.(Phila. 6:437-47 WB ;Human. 23447563