bs-1932R **[Primary Antibody]**

Vitronectin Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7448 **SWISS:** P04004

Target: Vitronectin

Immunogen: KLH conjugated synthetic peptide derived from human Vitronectin: 381-478/478.

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: Vitronectin (also known as serum spreading factor, S protein of complement or epibolin) is one of the major multifunctional cell adhesive glycoproteins in mammalian plasma and serum. It is a monomeric acidic glycoprotein detected as a mixture of 75 kD and 65 kD polypeptides. Vitronectin binds to heparin, collagen, streptococci and variety of cultured cells. It also acts as an inhibitor of the complement cascade by binding to the C5b9 complex. Vitronectin promotes cell adhesion and spreading by binding through its cell attachment tripeptide Arg-Gly-Asp (RG-D), activity which is mediated by several different integrin receptors. Apart from the significance for identifying the molecule in the above situations, it also plays an important role in events such as embryonal development, deposition of vitronectin in a number of fibrotic disease states, carcinomas and metastases.

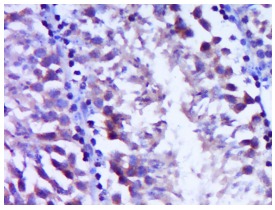
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

Predicted MW.: 9/52 kDa

Subcellular Location: Secreted ,Extracellular matrix

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (Mouse 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; Antibody incubation with (Vitronectin) Polyclonal Antibody, Unconjugated (bs-1932R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=18.962]** Kui Chen. et al. Reversing the pathological microenvironment by radiocatalytic sensitizer for local orthotopic osteosarcoma radiotherapy enhancement. NANO TODAY. 2023 Feb;48:101739 IHC ;Mouse. 10.1016/j.nantod.2022.101739

- **[IF=7.6]** Wang, Yang, et al. "Induced apoptosis of osteoblasts proliferating on polyhydroxyalkanoates." Biomaterials (2013). Other ;Rat. 23433672
- **[IF=3.382]** Meng GL et al. Effect of zinc substitution in hydroxyapatite coating on osteoblast and osteoclast differentiation under osteoblast/ osteoclast co-culture. Regenerative Biomaterials, 2019, 1–11. IF ;Mouse. 10.1093/rb/rbz001
- **[IF=1.889]** Chao Gong. et al. Over-expression of vitronectin correlates with impaired survival in gastric cancers. Medicine. 2021 Aug 6; 100(31): e26766 IHC ;Human. 34397822