

---

## Acrosin Rabbit pAb

Catalog Number: bs-5151R

Target Protein: Acrosin

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), Flow-Cyt (1ug/Test)

Reactivity: Human, Mouse (predicted:Rat, Rabbit, Pig, Sheep, Cow, Dog, Horse)

Predicted MW: 33/44 kDa

Subcellular Cytoplasm ,Nucleus

Locations:

Entrez Gene: 49

Swiss Prot: P10323

Source: KLH conjugated synthetic peptide derived from human Acrosin heavy chain: 201-300/421.

Purification: affinity purified by Protein A

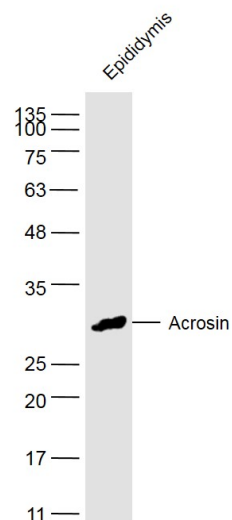
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

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

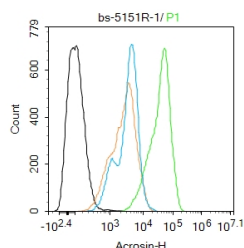
**Background:** Acrosin is the major proteinase present in the acrosome of mature spermatozoa. It is a typical serine proteinase with trypsin-like specificity. It is stored in the acrosome in its precursor form, proacrosin. The active enzyme functions in the lysis of the zona pellucida, thus facilitating penetration of the sperm through the innermost glycoprotein layers of the ovum. The mRNA for proacrosin is synthesized only in the postmeiotic stages of spermatogenesis. In humans proacrosin first appears in the haploid spermatids. [provided by RefSeq, Jul 2008]

### VALIDATION IMAGES

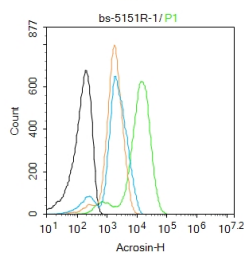
---



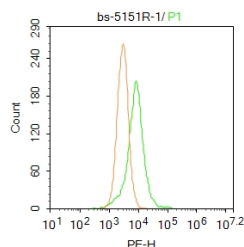
Sample: Epididymis (Mouse) Lysate at 40 ug Primary: Anti-Acrosin (bs-5151R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 33/44kD Observed band size: 33 kD



Blank control (black line) :HepG2. Primary Antibody (green line): Rabbit Anti-Acrosin antibody (bs-5151R) Dilution:1ug/Test; Secondary Antibody (white blue line) : Goat anti-rabbit IgG-AF488 Dilution: 0.5ug/Test. Isotype control (orange line) : Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control:HUVEC. Primary Antibody (green line): Rabbit Anti-Acrosin antibody (bs-5151R) Dilution: 1ug/Test; Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control: HepG2. Primary Antibody (green line): Rabbit Anti-Acrosin antibody (bs-5151R) Dilution: 1μg /10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

## PRODUCT SPECIFIC PUBLICATIONS

[IF=12.067] Zhang, Guohui. et al. Deficiency of cancer/testis antigen gene CT55 causes male infertility in humans and mice. CELL DEATH DIFFER. 2022 Dec;;1-15 WB,CoIP,IF ; Mouse, Human . 36481789

[IF=7.81] Deng, Shou - Long, et al. "Melatonin promotes development of haploid germ cells from early developing spermatogenic cells of Suffolk sheep under in vitro condition." Journal of Pineal Research (2016). Other ; ="Sheep" . 26993286

[IF=5.168] Deng et al. Melatonin up-regulates the expression of the GATA-4 transcription factor and increases testosterone secretion from Leydig cells through RORα signaling in an in vitro goat spermatogonial stem cell differentiation culture system. (2017) Oncotarget. 8:110592-110605 ICC ; Goat . 29299171

[IF=4.87] Li Y et al. Seminal Plasma Proteome as an Indicator of Sperm Dysfunction and Low Sperm Motility in Chickens. Mol Cell Proteomics. 2020 Jun;19(6):1035-1046. WB ; Chicken . 32312844

[IF=3.23] Liang, Xin, et al. "The Noncircadian Function of the Circadian Clock Gene in the Regulation of Male Fertility." Journal of biological rhythms 28.3 (2013): 208-217. Other ; =" " . 23735500