

**bs-2364R****[ Primary Antibody ]****PITX3 Rabbit pAb****BioSS**  
**ANTIBODIES**

www.bioss.com.cn

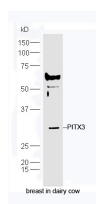
sales@bioss.com.cn

techsupport@bioss.com.cn

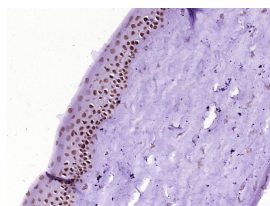
400-901-9800

**DATASHEET****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 5309**SWISS:** O75364**Target:** PITX3**Immunogen:** KLH conjugated synthetic peptide derived from human PITX3: 231-302/302.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

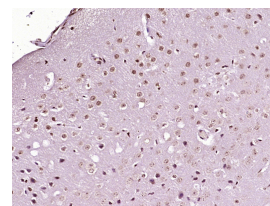
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** The transcription factor PITX3 is expressed selectively in the midbrain and regulates the differentiation and survival of dopaminergic neurons. Lack of this factor results in a degeneration similar to that seen in Parkinson's disease. PITX3 is also important in eye development; mutations of the PITX3 gene have been associated with a familial form of cataracts.**Applications:** WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (2ug/Test)**ICC/IF** (1:50)**Reactivity:** Human, Mouse, Rat, Cow  
(predicted: Rabbit, Pig, Chicken, Dog, Horse)**Predicted MW.:** 32 kDa**Subcellular Location:** Nucleus**VALIDATION IMAGES**

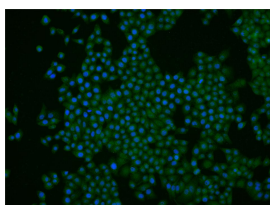
Sample: breast in dairy cow (Cow) Lysate at 40 ug  
 Primary: Anti-PITX3 (bs-2364R) at 1/300 dilution  
 Secondary: HRP conjugated Goat-Anti-rabbit IgG (bs-0295G-HRP) at 1/5000 dilution  
 Predicted band size: 32 kD Observed band size: 32 kD



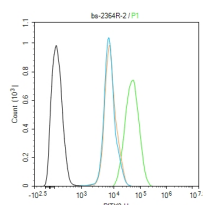
Paraformaldehyde-fixed, paraffin embedded (Rat eye); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PITX3) Polyclonal Antibody, Unconjugated (bs-2364R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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 (PITX3) Polyclonal Antibody, Unconjugated (bs-2364R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



MCF7 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 (PITX3) polyclonal Antibody, Unconjugated (bs-2364R) 1:25, 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



Blank control (black line) :MCF-7. Primary Antibody (green line): Rabbit Anti-PITX3 antibody (bs-2364R) Dilution:2ug/Test; Secondary Antibody (white/blue line) : Goat anti-rabbit IgG-FITC 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

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

used to stain the cell nuclei.

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.

---

## — SELECTED CITATIONS —

- **[IF=5.546]** Gao X et al. MicroRNA-21-5p targets PDCD4 to modulate apoptosis and inflammatory response to Clostridium perfringens beta2 toxin infection in IPEC-J2 cells. Dev Comp Immunol. 2020 Sep 1;114:103849. WB ;mouse. 31989652
- **[IF=4.522]** He X et al. Activation of CB2R with AM1241 ameliorates neurodegeneration via the Xist/miR - 133b - 3p/Pitx3 axis. J Cell Physiol. 2020 Jan 28. WB ;Mouse. 31989652