bs-3522R

[Primary Antibody]

BIOSS ANTIBODIES

MATH1 Rabbit pAb

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IHC-F (1:100-500)

IF (1:100-500)

Reactivity: Rat (predicted: Human,

Mouse)

Predicted MW.:

Subcellular Nucleus

Applications: IHC-P (1:100-500)

DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

GenelD: 474 **SWISS:** Q92858

Target: MATH1

Immunogen: KLH conjugated synthetic peptide derived from human MATH1:

145-250/354.

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

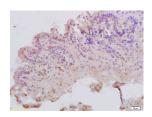
freeze/thaw cycles.

Background: The Drosophila atonal gene produces a protein with basic helix

loop helix (bHLH) domains that plays an essential role in the development of the Drosophila nervous system. Mammalian atonal homolog 1 (MATH-1) is a helix-loop-helix (HLH) transcription factor that is structurally homologous to the product of the Drosophila proneural gene atonal. MATH-1, so known as Atoh1, Ath1 or HATH-1, is a 351 amino acid protein with an atonal-related basic HLH domain. In mice, expression of MATH-1 takes place by embryonic day 9.5 and initially localizes to the cranial ganglions and the dorsal part of the central nervous system. Prominent expression of MATH-1 is in the dorsal part of the central nervous system but becomes restricted to the external granular layer of the cerebellum by day 18 and is undetectable in the adult nervous system. It is suggested that MATH-1 may play a role in the differentiation of subsets of neural cells by activating E box-

differentiation of subsets dependent transcription.

VALIDATION IMAGES



Tissue/cell: rat colitis tissue; 4%
Paraformaldehyde-fixed and paraffinembedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-MATH1 Polyclonal Antibody, Unconjugated(bs-3522R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

- SELECTED CITATIONS -

• [IF=4.5] Lanping Zhu. et al. Clostridium butyricum ameliorates indomethacin-induced enteropathy by promoting MUC2 secretion via suppressing the Notch pathway. FRONT MICROBIOL. 2025 Mar;16: IF; MOUSE. 40177488

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