

Rabbit Anti-PAX8 antibody

SL1201R

Product Name PAX8

Chinese Name 配对盒基因 8 抗体

Alias Paired Box Gene 8; paired box homeotic gene 8; Paired box protein Pax 8; Paired Domain Gene 8; PAX 8;PAX-8; PAX8_HUMAN.

Research Area Developmental biology Neurobiology transcriptional regulatory factor Epigenetics

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human,Rat(predicted:Mouse,Dog,Cow,Sheep,Goat)

Applications IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,Flow-Cyt=1μg/Test
(Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 48kDa

Cellular localization The nucleus

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human PAX8: 21-130/457

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

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

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

PubMed [PubMed](#)

Product This protein is a member of the paired box (PAX) family of transcription factors, typically

Detail

containing a paired box domain, an octapeptide, and a paired-type homeodomain. This family plays critical roles during fetal development and cancer growth. The specific function of the PAX8 is unknown but it may involve kidney cell differentiation, thyroid development, or thyroid dysgenesis. Alternative splicing in the gene by inclusion or exclusion of exons 7 and/or 8 has produced several known products but the biological significance of the variants is unknown. Several other splice variants have been proposed but the full nature of these products has not been described. Pax8 is also a marker of otic progenitor cells.

Function:

Transcription factor for the thyroid-specific expression of the genes exclusively expressed in the thyroid cell type, maintaining the functional differentiation of such cells.

Subunit:

Interacts with WWTR1.

Subcellular Location:

Nucleus.

Tissue Specificity:

Expressed in the excretory system, thyroid gland and Wilms tumors.

DISEASE:

Hypothyroidism, congenital, non-goitrous, 2 (CHNG2) [MIM:218700]: A disease characterized by thyroid dysgenesis, the most frequent cause of congenital hypothyroidism, accounting for 85% of case. The thyroid gland can be completely absent (athyreosis), ectopically located and/or severely hypoplastic. Ectopic thyroid gland is the most frequent malformation, with thyroid tissue being found most often at the base of the tongue. Note=The disease is caused by mutations affecting the gene represented in this entry.

Similarity:

Contains 1 paired domain.

SWISS:

Q06710

Gene ID:

7849

Database links:

[Entrez Gene: 7849](#) Human

[Entrez Gene: 18510](#) Mouse

[Entrez Gene: 81819](#) Rat

[Omim: 167415](#) Human

[SwissProt: Q06710](#) Human

[SwissProt: Q00288](#) Mouse

[SwissProt: P51974](#) Rat

[Unigene: 469728](#) Human

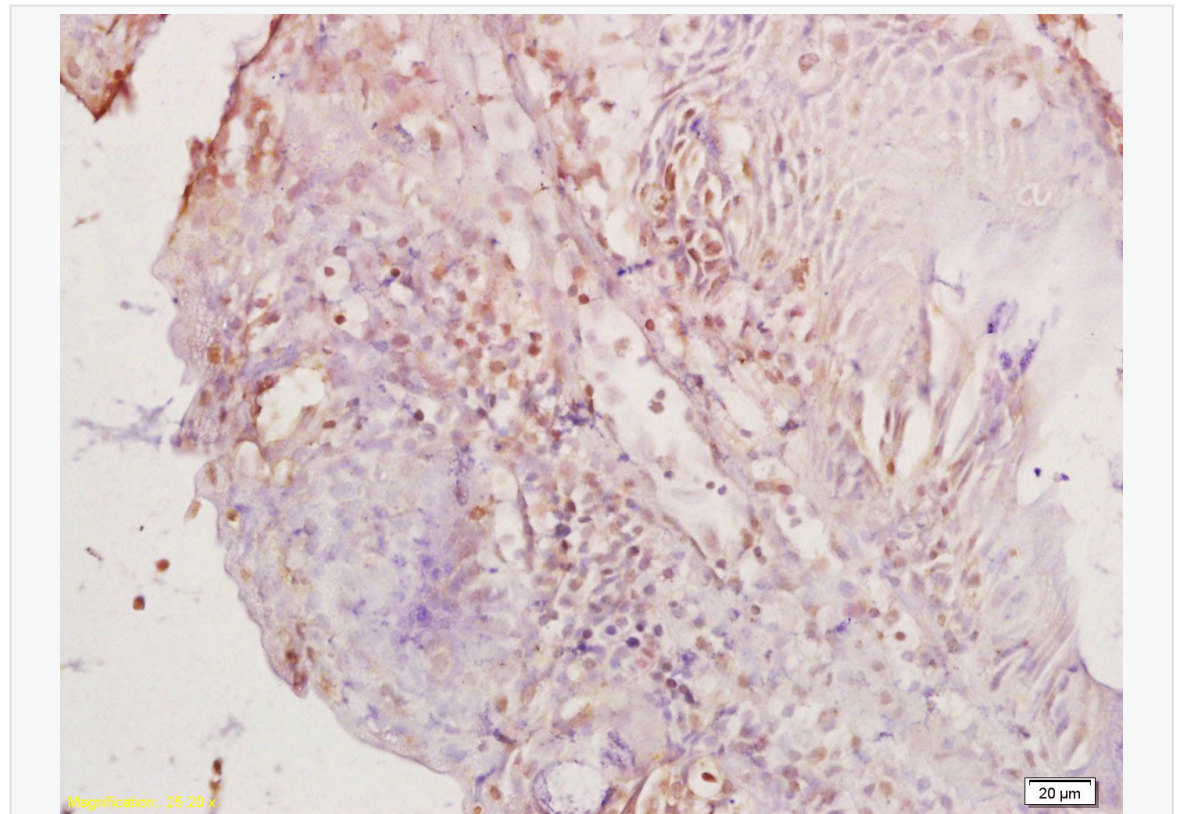
[Unigene: 2533](#) Mouse

[Unigene: 10392](#) Rat

同源结构域蛋白（Homeodomain Proteins）

PAX8 属于转录抑制因子 PAXs 的一种。在胚胎发育和 Tumour 生长中起关键作用。其突变和某些 Tumour 的发病有关。

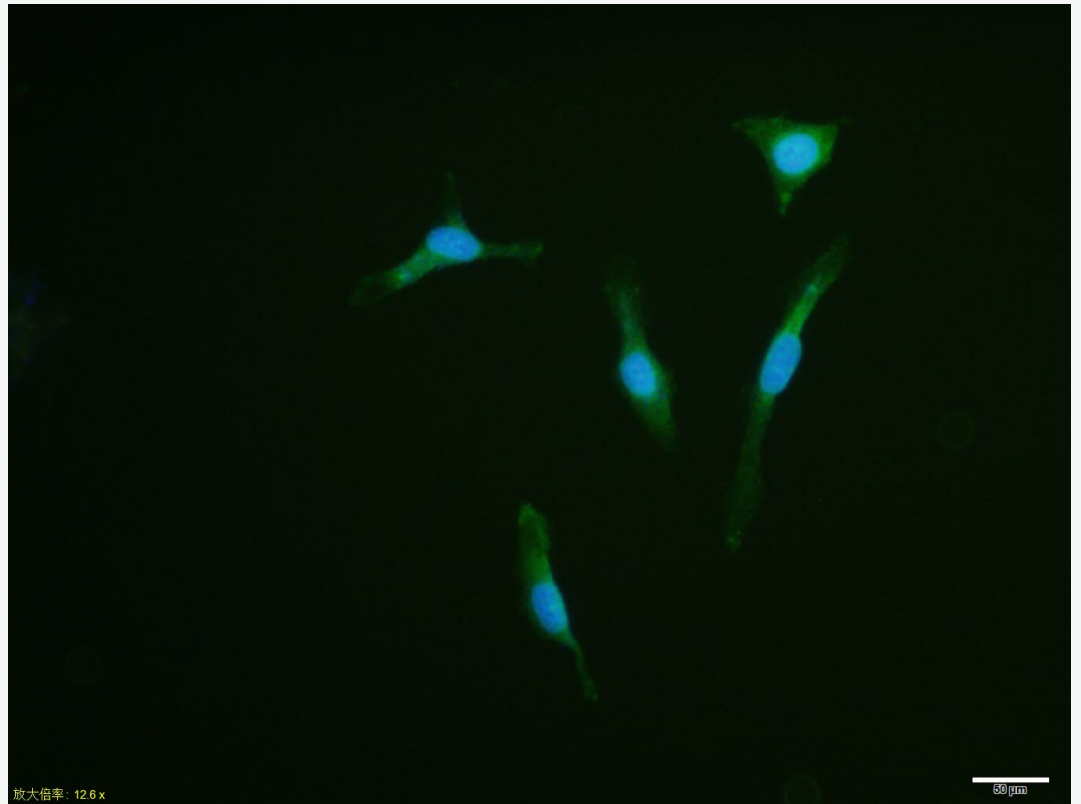
Product Picture



Tissue/cell: rat colon tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

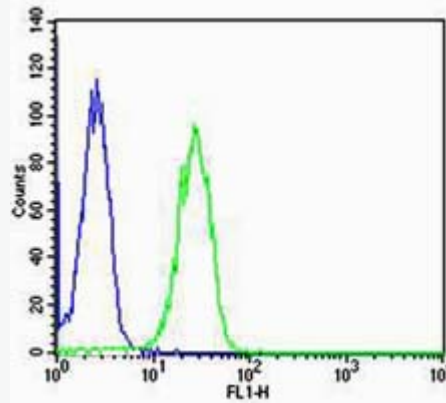
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-PAX8 Polyclonal Antibody, Unconjugated(SL1201R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



U87MG 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 (PAX8) polyclonal Antibody, Unconjugated (SL1201R) 1:100, 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 used to stain the cell nuclei.

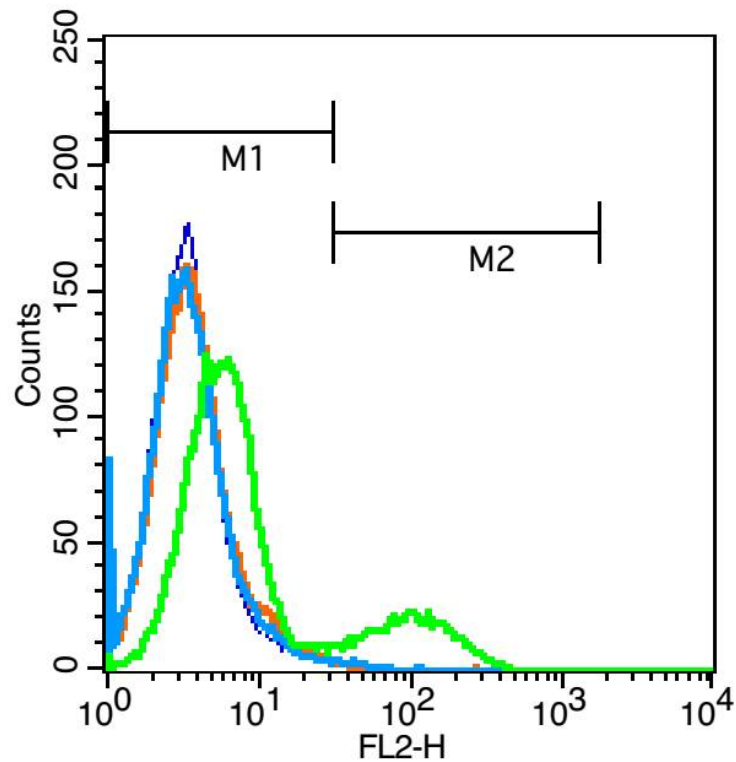


Cell:HT-29;

Concentration:1:100

Host/Isotype:Rabbit/IgG(blue line)

Flow cytometric analysis of Rabbit IgG isotype control on HT-29(blue) compared with primary antibody(Cat#: SL1021R)(green) followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG(H+L) secondary antibody .



Primary Antibody:Rabbit Anti-TLR4 antibody(SL1021R, green line); Isotype Control Antibody: Rabbit IgG (orange line); Secondary Antibody: F(ab')₂ fragment goat anti-rabbit IgG-PE (white blue line) Positive control: Jurkat cells(blue line)

Protocol

1. Jurkat cells were washed twice with phosphate-buffered saline (PBS). 2. An equivalent amount of pre-warmed 4% paraformaldehyde was added and the cells were incubated for 10 min at 37 °C.