

Anti-PAX6 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse, Rat (predicted: Chicken, Dog, Cow, Horse, Rabbit, Sheep)
Molecular Weight:	Theoretical: 46 kDa. Actual: 50 kDa.
Purification:	Protein A purified

Applications

1. Sample:

Cerebellum (Mouse) Lysate at 40 µg

Cerebellum (Rat) Lysate at 40 µg

Primary: Anti-PAX6 (TMAB-01338) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50/33 kDa

Observed band size: 50 kDa

2. Blank control: U87MG.

Primary Antibody (green line): Rabbit Anti-PAX6 antibody (TMAB-01338)

Dilution: 1 µg/Test;

Secondary Antibody: Goat anti-rabbit IgG-FITC

Dilution: 0.5 µg/Test.

Protocol

The cells were fixed with 4% PFA (10 min 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.

3. Blank control: U87MG.

Primary Antibody (green line): Rabbit Anti-PAX6 antibody (TMAB-01338)

Dilution: 1 µg/Test;

Secondary Antibody: Goat anti-rabbit IgG-FITC

Dilution: 0.5 µg/Test.

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Verified Activity:

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.

3. Blank control: U87MG.

Primary Antibody (green line): Rabbit Anti-PAX6 antibody (TMAB-01338)

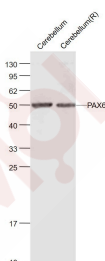
Dilution: 1 µg/Test;

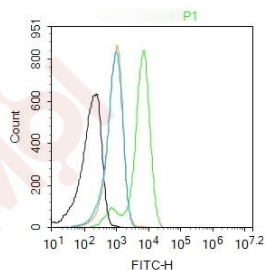
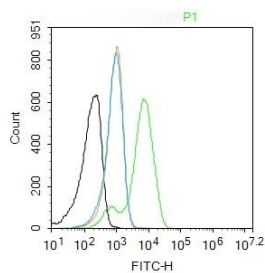
Secondary Antibody: Goat anti-rabbit IgG-FITC

Dilution: 0.5 µg/Test.

Protocol

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Application: FCM,WB

Recommended WB: 1:500-2000; FCM: 1ug/Test

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human PAX6

Antigen Species: Human

Gene ID: 5080

Uniprot ID: P26367

Synonyms: PAX 6;Oculorhombin;Aniridia type II protein;AN2;Paired box protein Pax-6

Biology Area: Ectoderm,Endoderm,Pancreas development,PAX,Neural Stem Cell marker,Neural Signal Transduction,Ectoderm,Endoderm

Research Background

Pax genes contain paired domains with strong homology to genes in Drosophila which are involved in programming early development. The PAX2 gene is expressed in primitive cells of the kidney, ureter, eye, ear, and central nervous system. More specifically, in human embryo sections, PAX2 is expressed in the optic vesicle and later in the retina, in the otic vesicle and later in the semicircular canals of the inner ear, and in mesonephros, metanephros, adrenals, spinal cord, and hindbrain. PAX2 mutations can be responsible for renal hypoplasia, either isolated or associated with various ophthalmologic manifestations ranging from retinal coloboma to microphthalmia. The gene which encodes Pax-2 maps to human chromosome 10q24.3-q25.1. Lesions in the PAX6 gene accounts for most cases of aniridia, a congenital malformation of the eye, chiefly characterized by iris hypoplasia, which can cause blindness. PAX6 is involved in other anterior segment malformations besides aniridia, such as Peters anomaly, a major error in the embryonic development of the eye with corneal clouding with variable iridolenticulocorneal adhesions. The gene which encodes Pax-6 maps to human chromosome 11p13.

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