

# PAX6 Monoclonal Antibody (AD2.38), eBioscience™

## Product Details

Size	100 µg
Species Reactivity	Chicken, Human, Mouse, Rat
Published Species	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	AD2.38
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10669586

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	5 µg/mL	2 Publications

## Product Specific Information

**Description:** This AD2.38 monoclonal antibody reacts with human, mouse, and rat Pax6. This 47-kDa transcription factor is expressed during embryonic neurogenesis in the brain and central nervous system, as well as in neuroepithelial cells of the retina. Pax6 is involved in development of the eyes, nose, central nervous system, pancreas, and pituitary gland. Studies also demonstrate that Pax6 is crucial for alpha-cell differentiation and glucagon biosynthesis in the pancreas. Mutation of Pax6 results in eye disorders such as aniridia in humans and Small eye in mice.

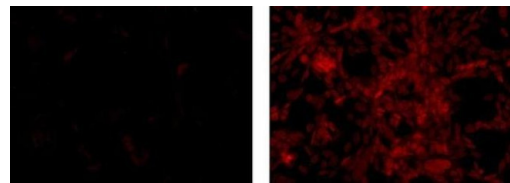
**Applications Reported:** This AD2.38 antibody has been reported for use in immunoblotting (WB) and immunocytochemistry.

**Applications Tested:** This AD2.38 antibody has been tested by immunocytochemistry of fixed and permeabilized MV+ cells. This antibody can be used at less than or equal to 5 µg/mL. It is recommended that this antibody be carefully titrated for optimal performance in the assay of interest.

**Purity:** Greater than 90%, as determined by SDS-PAGE.

**Aggregation:** Less than 10%, as determined by HPLC.

**Filtration:** 0.2 µm post-manufacturing filtered.



**PAX6 Antibody (14-9914-82) in ICC/IF**  
Immunocytochemistry of fixed and permeabilized MV+ cells using 5 µg/mL of Mouse IgG1 Isotype Control Purified (Product # 11-4714-42) (left) or Anti-Pax6 Purified (right) followed by Anti-Mouse TRITC.

2 References

Immunocytochemistry (2)

<p>Nature genetics</p> <p><b>Substantial somatic genomic variation and selection for BCOR mutations in human induced pluripotent stem cells.</b></p> <p>"14-9914-82 was used in Immunocytochemistry-immunofluorescence to explore human induced pluripotent stem cells (hiPSCs) derived from different tissues to gain insights into genomic integrity at single-nucleotide resolution."</p> <p>Authors: Rouhani FJ,Zou X,Danecek P,Badja C,Amarante TD,Koh G,Wu Q,Memari Y,Durbin R,Martincorena I,Bassett AR,Gaffney D,Nik-Zainal S</p>	<p>Year 2022</p> <p>Species Human</p> <p>Dilution 1:100</p>
<p>Experimental and therapeutic medicine</p> <p><b>Formation of three-dimensional cell aggregates expressing lens-specific proteins in various cultures of human iris-derived tissue cells and iPS cells.</b></p> <p>"Published figure using PAX6 monoclonal antibody (Product # 14-9914-82) in Immunocytochemistry"</p> <p>Authors: Hiramatsu N,Yamamoto N,Kato Y,Nagai N,Isogai S,Imaizumi K</p>	<p>Year 2022</p>

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