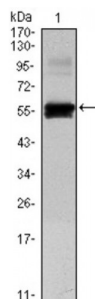


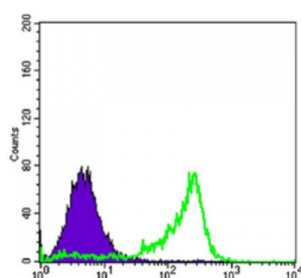
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Paired Box Protein Pax-6 (PAX6) Antibody

Catalogue No.: abx015955



Western blot analysis using PAX6 antibody against human PAX6 (AA: 1-223) recombinant protein. (Expected MW is 50 kDa).



Flow cytometric analysis of 3T3-L1 cells using PAX6 antibody (green) and negative control (purple).

Transcription factor with important functions in the development of the eye, nose, central nervous system and pancreas. Required for the differentiation of pancreatic islet alpha cells. PAX6 is the most researched of the PAX genes and appears throughout the literature as a "master control" gene for the development of eyes and other sensory organs, certain neural and epidermal tissues as well as other homologous structures, usually derived from ectodermal tissues. This transcription factor is most famous for its use in the interspecifically induced expression of ectopic eyes and is of medical importance because heterozygous mutants produce a wide spectrum of ocular defects such as Aniridia in humans. This gene encodes paired box gene 6, one of many human homologues of the *Drosophila melanogaster* gene *prd*. In addition to the hallmark feature of this gene family, a conserved paired box domain, the encoded protein also contains a homeo box domain. Both domains are known to bind DNA, and function as regulators of gene transcription. This gene is expressed in the developing nervous system, and in developing eyes. Mutations in this gene are known to cause aniridia as well as Peter's anomaly, both ocular diseases.

Target: PAX6

Reactivity: Human

Host: Mouse

Clonality: Monoclonal

Tested Applications: ELISA, WB, FCM

Recommended dilutions: ELISA: 1/10000, WB: 1/500 - 1/2000, FCM: 1/200 - 1/400. Optimal dilutions/concentrations should be determined by the end user.

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Immunogen:	Purified recombinant fragment of human PAX6 expressed in E. coli.
Purification:	Unpurified Ascites.
Isotype:	IgG ₁
Conjugation:	Unconjugated
Storage:	Aliquot and store at -20 °C. Avoid repeated freeze/thaw cycles.
Molecular Weight:	46 kDa
Swiss Prot:	P26367
GeneID:	5080
Gene Symbol:	PAX6
OMIM:	607108
HGNC:	8620
Ensembl:	ENSG00000007372
Buffer:	Ascitic fluid containing 0.03% sodium azide.
Note:	This product is for research use only.