

Datasheet for ABIN969342

**anti-PAX6 antibody**[Go to Product page](#)**2** Images**3** Publications

## Overview

Quantity:	100 µL
Target:	PAX6
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PAX6 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

## Product Details

Immunogen:	Purified recombinant fragment of human PAX6 expressed in E. coli.
Clone:	1C8
Isotype:	IgG1
Purification:	purified

## Target Details

Target:	PAX6
Alternative Name:	PAX6 ( <a href="#">PAX6 Products</a> )
Background:	Description: 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

## Target Details

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.

Aliases: AN, AN2, MGDA, WAGR, D11S812E, MGC17209, PAX6

Molecular Weight:	46 kDa
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Gene ID:	5080
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HGNC:	5080
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Pathways:	<a href="#">Peptide Hormone Metabolism</a> , <a href="#">Carbohydrate Homeostasis</a>
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## Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, FCM: 1:200 - 1:400
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Restrictions:	For Research Use only
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## Handling

Format:	Liquid
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Buffer:	Ascitic fluid containing 0.03 % sodium azide.
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	4 °C/-20 °C
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Storage Comment:	4°C, -20°C for long term storage
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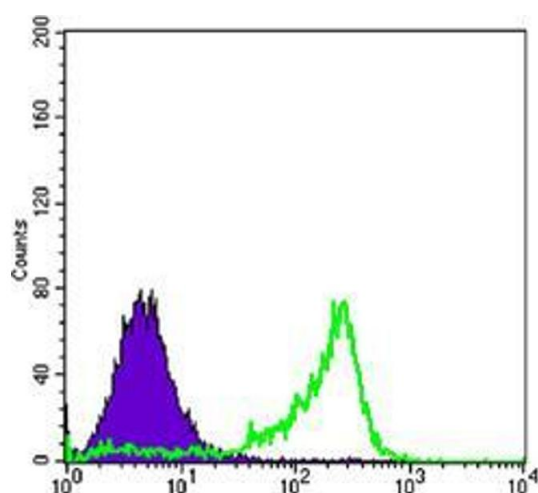
## Publications

Product cited in:	Mishra, Thakur, Somal, Parmar, Yadav, Bharati, Bharti, Paul, Verma, Chouhan, Sharma, Singh,
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González, DOcchio, Sarkar et al.: "Expression and localization of angiopoietin family in buffalo ovarian follicles during different stages of development and modulatory role of angiopoietins on steroidogenesis and survival of cultured ..." in: **Theriogenology**, Vol. 86, Issue 7, pp. 1818-33, (2016) ([PubMed](#)).

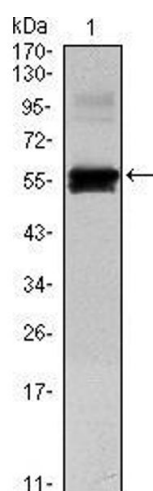
Mishra, Parmar, Yadav, Reshma, Bharati, Bharti, Paul, Chouhan, Taru Sharma, Singh, Sarkar et al.: "Expression and localization of angiopoietin family in corpus luteum during different stages of oestrous cycle and modulatory role of angiopoietins on steroidogenesis, angiogenesis and survivability ..." in: **Reproduction in domestic animals = Zuchthygiene**, Vol. 51, Issue 6, pp. 855-869, (2016) ([PubMed](#)).

## Images



### Flow Cytometry

**Image 1.** Flow cytometric analysis of 3T3-L1 cells using PAX6 mouse mAb (green) and negative control (purple).



### Western Blotting

**Image 2.** Western blot analysis using PAX6 mAb against human PAX6 (AA: 1-223) recombinant protein. (Expected MW is 50 kDa)