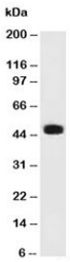
# PAX6 Antibody [clone PAX6/498] (V2216)

| Catalog No. | Formulation | Size |
|---|---|---|
| V2216-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V2216-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V2216SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | PAX6/498 |
| **Purity** | Protein G purified antibody |
| **Gene ID** | 5080 |
| **Localization** | Nuclear |
| **Applications** | Western Blot : 1-2ug/ml |
| **Limitations** | This **PAX6 antibody** is available for research use only. |




Western blot testing of human cerebellum lysate with PAX6 antibody (clone PAX6/498). Predicted molecular weight ~48 kDa.

## Description

PAX genes contain paired domains with strong homology to genes in Drosophila, which are involved in programming early development. Lesions in the PAX6 gene account 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 PAX6 gene encodes a transcriptional regulator that recognizes target genes through its paired-type DNA-binding domain. The paired domain is composed of two distinct DNA-binding subdomains, the amino-terminal subdomain and the carboxy-terminal subdomain, which bind respective consensus DNA sequences. The human PAX6 gene produces two alternatively spliced isoforms that have the distinct structure of the paired domain.

## Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the antibody to be titered up or down for optimal performance.

## Immunogen

Recombinant human PAX6 protein was used as the immunogen for this antibody.

## Storage

Store the PAX6 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

## Alternate Names

AN2; Aniridia type II protein; Oculorhombin; Paired box gene 6 (aniridia keratitis); Paired box homeotic gene 6; Paired box protein Pax-6; Sey; WAGR, PAX6 antibody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