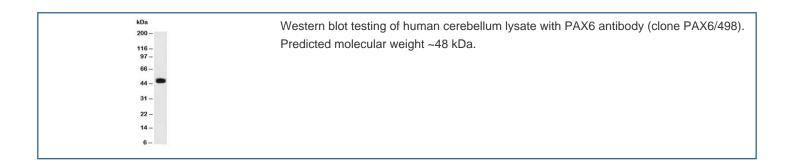


# PAX6 Antibody [clone PAX6/498] (V2216)

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.



## **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