

### 36-1528: Monoclonal Antibody to PAX6 (Stem Cell Marker)(Clone : PAX6/1166)

|                                |   |
|--------------------------------|---|
| <b>Clonality :</b>             | Monoclonal  |
| <b>Clone Name :</b>            | PAX6/1166   |
| <b>Application :</b>           | IHC   |
| <b>Reactivity :</b>            | Human   |
| <b>Gene :</b>                  | PAX6  |
| <b>Gene ID :</b>               | 5080  |
| <b>Uniprot ID :</b>            | P26367  |
| <b>Format :</b>                | Purified  |
| <b>Alternative Name :</b>      | PAX6,AN2  |
| <b>Isotype :</b>               | Mouse IgG1, kappa   |
| <b>Immunogen Information :</b> | Recombinant fragment (N-terminus; aa 1-300) of human PAX6 protein |

#### Description

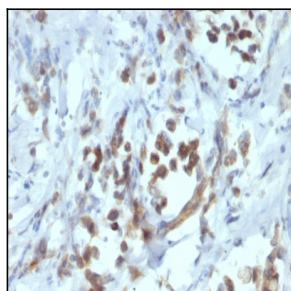
Pax genes contain paired domains with strong homology to genes in Drosophila, which are involved in programming early development. Lesions in the Pax-6 gene account for most cases of aniridia, a congenital malformation of the eye, chiefly characterized by iris hypoplasia, which can cause blindness. Pax-6 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 Pax-6 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 Pax-6 gene produces two alternatively spliced isoforms that have the distinct structure of the paired domain.

#### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 100 µg  |
| <b>Purification :</b>      | Affinity Chromatography   |
| <b>Content :</b>           | 100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.                               |
| <b>Storage condition :</b> | Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles. |

#### Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris Buffer with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes)



Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with PAX6 Monoclonal Antibody (PAX6/1166).