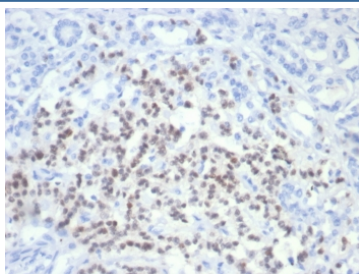


## PAX6 Antibody [clone PAX6/7705] (V4140)

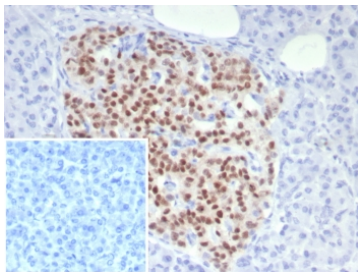
| Catalog No.    | Formulation                                                             | Size   |
|----------------|-------------------------------------------------------------------------|--------|
| V4140-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V4140-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug  |
| V4140SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free                          | 100 ug |

[Bulk quote request](#)

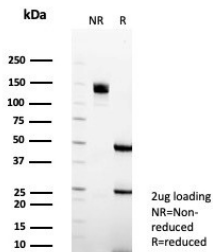
|                           |                                                             |
|---------------------------|-------------------------------------------------------------|
| <b>Availability</b>       | 1-3 business days                                           |
| <b>Species Reactivity</b> | Human                                                       |
| <b>Format</b>             | Purified                                                    |
| <b>Host</b>               | Mouse                                                       |
| <b>Clonality</b>          | Monoclonal (mouse origin)                                   |
| <b>Isotype</b>            | Mouse IgG                                                   |
| <b>Clone Name</b>         | PAX6/7705                                                   |
| <b>Purity</b>             | Protein A/G affinity                                        |
| <b>UniProt</b>            | P26367                                                      |
| <b>Localization</b>       | Nucleus                                                     |
| <b>Applications</b>       | Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT |
| <b>Limitations</b>        | This PAX6 antibody is available for research use only.      |



IHC staining of FFPE human pancreatic cancer with PAX6 antibody (clone PAX6/7705).  
HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human pancreas tissue with PAX6 antibody (clone PAX6/7705). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free PAX6 antibody (clone PAX6/7705) as confirmation of integrity and purity.

## 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.

## Application Notes

Optimal dilution of the PAX6 antibody should be determined by the researcher.

## Immunogen

A recombinant partial protein (within amino acids 1-300) from the human protein was used as the immunogen for the PAX6 antibody.

## Storage

Aliquot the PAX6 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.