

Product datasheet for **TA318938**

PAX6 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 0.5-4ug/ml
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide surrounding amino acid 303 of rat PAX6
Formulation:	100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	paired box 6
Database Link:	NP_000271 Entrez Gene 18508 Mouse Entrez Gene 25509 Rat Entrez Gene 5080 Human P26367



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Background:

PAX genes encode nuclear transcription factors that may function as major controllers of developmental processes in both vertebrates and invertebrates. Mutations in murine PAX genes underlie three natural mouse alleles and several corresponding human syndromes (aniridia, foveal hypoplasia and Peters' anomaly). Murine PAX genes have been shown to be proto-oncogenes. Furthermore, human PAX genes have recently been demonstrated to play an influential part in some common human cancers such as brain tumors and lymphomas. All PAX genes encode a DNA-binding domain termed the paired domain and in addition some also encode a second binding domain--the paired type homeobox. PAX6 is involved in the early development of the optical vesicle and has been shown to interact with Six3, another important visual development protein.

Synonyms:

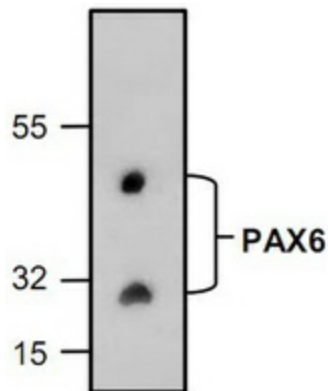
AN; AN2; D11S812E; FVH1; MGDA; WAGR

Protein Families:

Adult stem cells, Druggable Genome, Embryonic stem cells, Transcription Factors

Protein Pathways:

Maturity onset diabetes of the young

Product images:

Western blot analysis of PAX6 with rat kidney tissue lysate.