

**PAX-8 (PT0042R) rabbit mAb**

<b>Catalog No :</b>	YM8013
<b>Reactivity :</b>	Human;
<b>Applications :</b>	IHC;ELISA
<b>Target :</b>	Pax-8
<b>Fields :</b>	>>Thyroid hormone synthesis;>>Pathways in cancer;>>Transcriptional misregulation in cancer;>>Thyroid cancer
<b>Gene Name :</b>	PAX8
<b>Protein Name :</b>	Paired box protein Pax-8
<b>Human Gene Id :</b>	7849
<b>Human Swiss Prot No :</b>	Q06710
<b>Mouse Gene Id :</b>	18510
<b>Mouse Swiss Prot No :</b>	Q00288
<b>Rat Gene Id :</b>	81819
<b>Rat Swiss Prot No :</b>	P51974
<b>Immunogen :</b>	Synthesized peptide derived from human protein. AA range:150-250
<b>Specificity :</b>	endogenous
<b>Formulation :</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source :</b>	Monoclonal Rabbit IgG1, Kappa
<b>Dilution :</b>	IHC 1:100-500 ELISA: 1:20000

<b>Purification :</b>	Protein A
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Cell Pathway :</b>	Pathways in cancer;Thyroid cancer;
<b>Background :</b>	<p>This gene encodes a member of the paired box (PAX) family of transcription factors. Members of this gene family typically encode proteins that contain a paired box domain, an octapeptide, and a paired-type homeodomain. This nuclear protein is involved in thyroid follicular cell development and expression of thyroid-specific genes. Mutations in this gene have been associated with thyroid dysgenesis, thyroid follicular carcinomas and atypical follicular thyroid adenomas. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Mar 2010],</p>
<b>Function :</b>	<p>caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,developmental stage:In developing excretory system, during thyroid differentiation and in adult thyroid.,disease:Defects in PAX8 are the cause of congenital hypothyroidism non-goitrous type 2 (CHNG2) [MIM:218700]. CHNG2 is a disease characterized by thyroid dysgenesis, the most frequent cause of congenital hypothyroidism, accounting for 85% of case. The thyroid gland can be completely absent (athyreosis), ectopically located and/or severely hypoplastic. Ectopic thyroid gland is the most frequent malformation, with thyroid tissue being found most often at the base of the tongue.,function:Transcription factor for the thyroid-specific expression of the genes exclusively expressed in the thyroid cell type, maintaining the functional differentiation of such cell</p>
<b>Subcellular Location :</b>	Nuclear
<b>Expression :</b>	Expressed in the excretory system, thyroid gland and Wilms tumors.

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