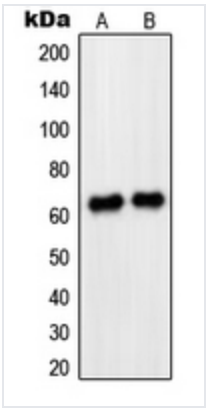
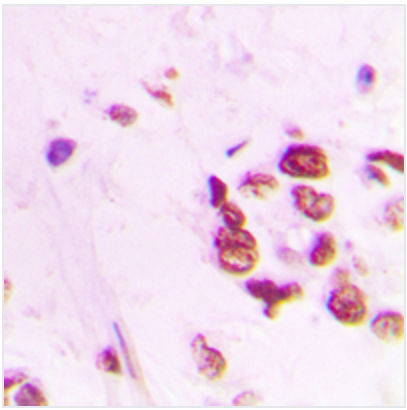
PAX8 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PAX8, Polyclonal Antibody
Full Product Name	Rabbit anti-PAX8 Antibody
Product Gene Name	anti-PAX8 antibody
Product Synonym Names	Paired box protein Pax-8
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	295
OMIM	gene 218700
3D Structure	ModBase 3D Structure for Q06710
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PAX8. The exact sequence is proprietary.
Product Categories/Family for anti-PAX8 antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-PAX8 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-PAX8 antibody	WB: 1:500-1:1000 IHC: 1:100-1:200
Related Product Information for anti-PAX8 antibody	MBS4504607 is an antibody targeting PAX8. Also known as Rabbit anti-PAX8 Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-PAX8 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-PAX8 antibody
Western blot analysis of PAX8 expression in HeLa (A), HEK293T (B) whole cell lysates.



Immunohistochemistry (IHC) of anti-PAX8 antibody
Immunohistochemical analysis of PAX8 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PAX8. It may not necessarily be applicable to this product.

NCBI GI #	215273928
NCBI GeneID	7849
NCBI Accession #	Q06710.2
UniProt Primary Accession #	Q06710
UniProt Secondary Accession #	Q09155; Q16337; Q16338; Q16339; Q4ZG35; Q96J49
UniProt Related Accession #	Q06710
NCBI Official Full Name	Paired box protein Pax-8
NCBI Official Synonym Full Names	paired box 8
NCBI Official Symbol	PAX8
UniProt Protein Name	Paired box protein Pax-8
Protein Family	Paired box protein
UniProt Gene Name	PAX8
UniProt Entry Name	PAX8_HUMAN
NCBI Protein Information	paired box protein Pax-8; paired domain gene 8
NCBI Summary for PAX8	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]

UniProt Comments for PAX8	PAX8: Transcription factor for the thyroid-specific expression of the genes exclusively expressed in the thyroid cell type, maintaining the functional differentiation of such cells. Interacts with WWTR1. Expressed in the excretory system, thyroid gland and Wilms tumors. 5 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 2q13 Cellular Component: nucleoplasm; nucleus Molecular Function: protein binding; DNA binding; transcription factor activity; thyroid-stimulating hormone receptor activity Biological Process: regulation of apoptosis; anatomical structure morphogenesis; inner ear morphogenesis; central nervous system development; transcription, DNA-dependent; ureteric bud branching; positive regulation of transcription, DNA-dependent; thyroid gland development; positive regulation of transcription from RNA polymerase II promoter; mesonephros development; kidney development; pronephros development; urogenital system development Disease: Hypothyroidism, Congenital, Nongoitrous, 2
Research Articles on PAX8	**1.** PAX8 is increased in the majority of glioblastomas and promoted cell survival.
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