PAX8 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	PAX8, Blocking Peptide
Full Product Name	PAX8 Blocking Peptide
Product Gene Name	PAX8 blocking peptide
Product Synonym Names	OTTHUMP00000158659; OTTHUMP00000158660; OTTHUMP00000203723; OTTHUMP00000203724; Paired box 8; Paired box gene 8; paired box homeotic gene 8; Paired box protein Pax 8; Paired box protein Pax-8; Paired domain gene 8; PAX 8; PAX8; PAX8_HUMAN
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	PAX8 peptide (MBS9622837) is used for blocking the activity of PAX8 antibody (MBS9604120)
Molecular Weight	31,044 Da
OMIM	gene 218700
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for PAX8 blocking peptide	Blocking/Control
Related Product Information for PAX8 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of PAX8 blocking peptide 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.
Searchable Terms for PAX8 purchase	MBS9622837 is a blocking peptide targeting PAX8.

ADDITIONAL DETAILS

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

NCBI GI #	5803117
NCBI GeneID	7849
NCBI Accession #	NP_003457.1
UniProt Primary Accession #	Q06710
UniProt Secondary Accession #	Q09155; Q16337; Q16338; Q16339; Q4ZG35; Q96J49

UniProt Related Accession #	Q06710
GenBank Nucleotide #	NM_003466.3
NCBI Official Full Name	paired box protein Pax-8 isoform PAX8A
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
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
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