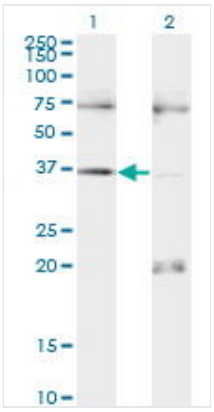
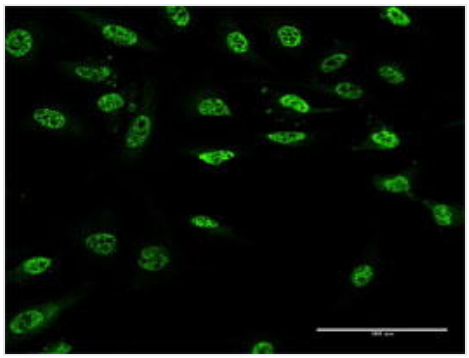
PAX9 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

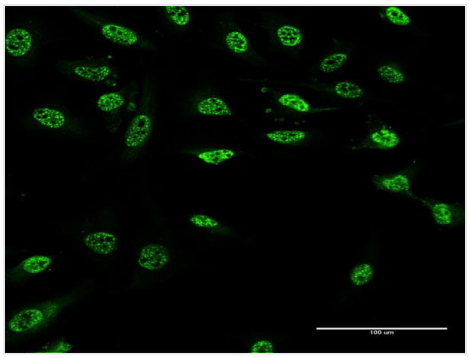
Product Name	PAX9, Monoclonal Antibody
Full Product Name	PAX9 (Paired Box 9) (AP)
Product Gene Name	anti-PAX9 antibody
Product Synonym Names	Paired Box 9
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3B8
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified
Specificity	Recognizes PAX9.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	38.7 kDa (364aa)
OMIM	167416
3D Structure	ModBase 3D Structure for P55771
Immunogen	PAX9 (NP_006185, 205aa-300aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Conjugate	AP
Product Categories/Family for anti-PAX9 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-PAX9 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-PAX9 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PAX9 antibody	This gene is a member of the paired box (PAX) family of transcription factors. Members of this gene family typically contain a paired box domain, an octapeptide, and a paired-type homeodomain. These genes play critical roles during fetal development and cancer growth. The specific function of the paired box 9 gene is unknown but it may involve development of stratified squamous epithelia as well as various organs and skeletal elements. [provided by RefSeq]
Other Notes	Small volumes of anti-PAX9 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.
Searchable Terms for PAX9 purchase	MBS6164754 is an antibody targeting PAX9. Also known as PAX9 (Paired Box 9) (AP). Host: Mouse.



Western Blot (WB) of anti-PAX9 antibody
Western Blot analysis of PAX9 expression in transfected 293T cell line by PAX9 monoclonal antibody (M13), clone 3B8.Lane 1: PAX9 transfected lysate(36.3 KDa).Lane 2: Non-transfected lysate.



Immunofluorescence (IF) of anti-PAX9 antibody
Immunofluorescence of monoclonal antibody to PAX9 on HeLa cell. [antibody concentration 5 ug/ml]



Immunofluorescence (IF) of anti-PAX9 antibody
Immunofluorescence of monoclonal antibody to PAX9 on HeLa cell. [antibody concentration 5 ug/ml]

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PAX9. It may not necessarily be applicable to this product.

NCBI GI #	7242167
NCBI GeneID	5083
NCBI Accession #	NP_006185
UniProt Primary Accession #	P55771
UniProt Secondary Accession #	Q99582; Q9UQR4
UniProt Related Accession #	P55771
GenBank Nucleotide #	NM_006194.3
NCBI Official Full Name	paired box protein Pax-9
NCBI Official Synonym Full Names	paired box 9
NCBI Official Symbol	PAX9
NCBI Official Synonym Symbols	STHAG3
UniProt Protein Name	Paired box protein Pax-9
Protein Family	Paired box protein
UniProt Gene Name	PAX9
UniProt Entry Name	PAX9_HUMAN

NCBI Protein Information	paired box protein Pax-9
NCBI Summary for PAX9	This gene is a member of the paired box (PAX) family of transcription factors. Members of this gene family typically contain a paired box domain, an octapeptide, and a paired-type homeodomain. These genes play critical roles during fetal development and cancer growth. Mice lacking this gene exhibit impaired development of organs, musculature and the skeleton, including absent and abnormally developed teeth, and neonatal lethality. Mutations in the human gene are associated with selective tooth agenesis-3. [provided by RefSeq, Sep 2015]
UniProt Comments for PAX9	PAX9: Transcription factor required for normal development of thymus, parathyroid glands, ultimobranchial bodies, teeth, skeletal elements of skull and larynx as well as distal limbs. Interacts with KDM5B. Protein type: Transcription factor Chromosomal Location of Human Ortholog: 14q13.3 Cellular Component: nucleus Molecular Function: protein binding Biological Process: odontogenesis; transcription, DNA-dependent; regulation of odontogenesis; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; endoderm development Disease: Tooth Agenesis, Selective, 3
Research Articles on PAX9	**1.** in vitro functional analysis creating PAX9 minigene construct did apparently show no effect on the splice-site migration. It is therefore proposed that haploinsufficiency of PAX9 is the causal factor for tooth agenesis in this family.
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