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**Product Name: Pax-9 Rabbit Polyclonal Antibody****Catalog #: APRab15798**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,ELISA 1:10000-1:20000
<b>Molecular Weight</b>	35kDa

**Antigen Information**

<b>Gene Name</b>	PAX9
<b>Alternative Names</b>	PAX9; Paired box protein Pax-9
<b>Gene ID</b>	5083.0
<b>SwissProt ID</b>	P55771
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human Pax-9. AA range:158-207

**Background**

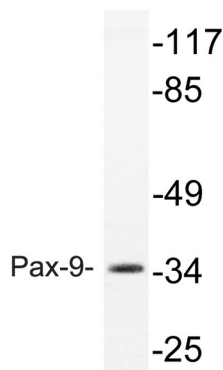
This gene is a member of the paired box (PAX) family of transcription factors. Members of this gene family typically contain a

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],disease:Defects in PAX9 are a cause of oligodontia [MIM:604625]. It is a form of familial or selective tooth agenesis. Oligodontia is defined as the agenesis of 6 or more permanent teeth without associated systemic disorders. Agenesis of one or more teeth constitutes one of the most common developmental anomalies in man. Reported incidences vary from 1.6% to 9.6%, excluding third molar (Wisdom tooth) agenesis, which occurs in 20% of the population.,function:Transcription factor required for normal development of thymus, parathyroid glands, ultimobranchial bodies, teeth, skeletal elements of skull and larynx as well as distal limbs.,similarity:Contains 1 paired domain.,subunit:Interacts with KDM5B.,

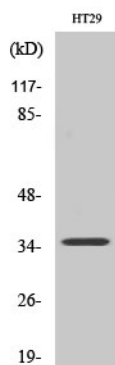
## Research Area

Domain Families; Developmental Families PAX; Epigenetics and Nuclear Signaling; Transcription; Transcription Factors

## Image Data



Western blot analysis of lysate from rat heart, using Pax-9 antibody.



Western Blot analysis of various cells using Pax-9 Polyclonal Antibody.