SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-POD1 antibody

Catalog Number: SL8688R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	POD1
Immunogen:	KLH conjugated synthetic peptide derived from human TCF-21: 41-140/179
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB (1:500-2000) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Human
Predicted MW.:	20 kDa
Subcellular Location:	The nucleus
Background:	The basic helix-loop-helix (bHLH) class of transcription factors govern cell fate determination by controlling a variety of cellular differentiation processes. POD-1 (podocyte-expressed 1, also designated capsulin or epicardin) is a nuclear bHLH protein that is involved in the specification of select mesodermal cell populations associated with heart, cranial skeletal muscle, gut and urogenital system. POD-1 is selectively expressed in mesenchymal cells at sites of epithelial-mesenchymal interaction in the kidney, lung, intestine, pancreas and the epicardium, which gives rise to the coronary arteries. This epithelial-mesenchymal interaction is involved in the formation of numerous internal organs. POD-1 is also expressed in the mesothelium that gives rise to the spleen and in cells that give rise to smooth muscle. In addition to its role in kidney morphogenesis and spleen organogenesis, POD-1 may play a role in the development and sex determination of the mammalian gonad. **Function:** Involved in epithelial-mesenchymal interactions in kidney and lung morphogenesis that include epithelial differentiation and branching

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	morphogenesis. May play a role in the specification or differentiation of one or more subsets of epicardial cell types. **Subunit:** Efficient DNA binding requires dimerization with another bHLH protein. Forms a heterodimer with TCF3 and binds the E box (5'-CANNTG-3'). **Subcellular Location:** Nucleus. **Similarity:** Contains 1 basic helix-loop-helix (bHLH) domain. **Database links:** **Entrez Gene:** 421697 Chicken **Entrez Gene:** 510873 Cow **Entrez Gene:** 6943 Human **Entrez Gene:** 21412 Mouse **Entrez Gene:** 252856 Rat Omim: 603306 Human **SwissProt:** Q5E9S3 Cow **SwissProt:** O43680 Human **SwissProt:** O35437 Mouse **Unigene:** 78061 Human **Unigene:** 16497 Mouse

[VALIDATION IMAGES]

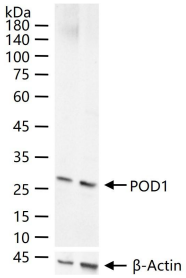


Figure 1. 25 ug total protein per lane of various lysates (see on figure) probed with POD1 polyclonal antibody, unconjugated (SL8688R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min

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