Data Sheet (Cat.No.TMAB-01961)

Anti-VGLL4 Polyclonal Antibody

Product Details

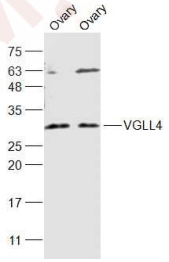
Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep)
Molecular Weight:	Theoretical: 31 kDa. Actual: 31 kDa.
Purification:	Protein A purified

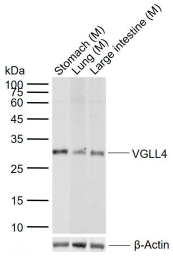
Applications

Verified Activity:

1. Sample:
Ovary (Mouse) Lysate at 40 µg
Ovary (Rat) Lysate at 40 µg
Primary: Anti-VGLL4 (TMAB-01961) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 31 kDa
Observed band size: 31 kDa

2. Sample:
Lane 1: Mouse Stomach tissue lysates
Lane 2: Mouse Lung tissue lysates
Lane 3: Mouse Large intestine tissue lysates
Primary: Anti-VGLL4 (TMAB-01961) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 31 kDa
Observed band size: 31 kDa





Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human VGLL4

Antigen Species: Human

Gene ID: 9686

Uniprot ID: Q14135

Synonyms: VGLL 4;Vestigial like protein 4;VGL 4;Transcription cofactor vestigial like protein 4

Biology Area: Co-factors,Other factors

Research Background

The transcriptional enhancer factor-1 (TEF-1) family of transcription factors regulate tissue-specific gene expression in muscle and placenta. The mechanism whereby TEF-1 confers tissue specificity depends largely on the interaction of TEF-1 with tissue-specific cofactors. Transcription cofactor Vgl-4 (vestigial-like protein 4) is a 290 amino acid nuclear protein that interacts with TEF-1 and MEF-2. Vgl-4 is the only member of the vestigial-like family that is expressed in heart. Overexpression of Vgl-4 in cardiac myocytes interferes with basal expression and ?-adrenergic receptor-dependent activation of a TEF-1 dependent skeletal ?actin promoter. This suggests that Vgl-4 counteracts ?-adrenergic activation of gene expression in cardiomyocytes. There are two isoforms of Vgl-4 that are produced as a result of alternative splicing events.

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