

## Anti-VGLL2 Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Mouse (predicted:Human,Rat,Dog,Pig,Cow,Rabbit)
Molecular Weight:	Theoretical: 33 kDa. Actual: 35 kDa.
Purification:	Protein A purified

## Applications

Verified Activity:	Sample: Muscle (Mouse) Lysate at 40 µg Primary: Anti-VGLL2 (TMAB-14093) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 33 kD Observed band size: 35 kD
Application:	WB
Recommended	WB: 1:500-2000

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. 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 VGLL2
Antigen Species:	Human
Gene ID:	245806
Uniprot ID:	Q8N8G2

## Research Background

Vgl-2, also known as VITO-1, is a 317 amino acid protein that contains a domain through which it interacts with TEF-1, a protein that plays a role in controlling the expression of numerous genes. Specific to skeletal muscle, Vgl-2 is expressed highly in adult fast muscle and is expressed at lower levels in adult slow muscle and fetal skeletal muscle. During muscle differentiation, Vgl-2 mRNA levels increase and Vgl-2 translocates from the cytoplasm to the nucleus. Overexpression of Vgl-2 in MYOD-transfected 10T1/2 mouse embryonic fibroblasts increases expression of myosin heavy chain (MHC), which is a marker of terminal muscle differentiation. This evidence suggests that Vgl-2 is essential for muscle gene expression. There are two isoforms of Vgl-2 that are produced as a result of alternative splicing events.

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