

## Anti-ADAM18 Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Mouse (predicted:Human,Dog)
Molecular Weight:	Theoretical: 62 kDa. Actual: 75/50 kDa.
Purification:	Protein A purified

## Applications

Verified Activity:	Sample:
	Heart (Mouse) Lysate at 40 µg
	Primary: Anti-ADAM18 at 1/300 dilution
	Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
	Predicted band size: 62 kD
	Observed band size: 75/50 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 ADAM18
Antigen Species:	Human
Gene ID:	8749

## Research Background

ADAM18 was first described as tMDC III (testis-specific Metalloproteinase-like disintegrin-like cysteine-rich protein-III). ADAM18 is a member of the ADAMs family (A Disintegrin And Metalloproteinase), but does not contain the canonical HEXXHxxxH zinc-binding metalloproteinase catalytic site. The domain structure of the full-length ADAM18 includes a signal sequence, propeptide domain, metalloproteinase-like domain, disintegrin-like domain, cys-rich domain, EGF-like domain, a short spacer region, then the transmembrane domain and a cytoplasmic domain. Like many of the reproductive-specific ADAMs, ADAM18 plays a nonenzymatic role, or (as is the case for ADAMs 1 & 2 (fertilin alpha and beta)), the protein acts in concert with a proteolytically active ADAM to process proteins. Little is known about interactions between ADAM18 and other ADAMs. To date, 4 different sequences for human ADAM18 are published; 739, 715, 182 and 153 amino acids in length.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481