

Anti-AT2R2 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Dog,Pig,Horse,Sheep)
Molecular Weight:	Theoretical: 41 kDa. Actual: 50 kDa.
Purification:	Protein A purified

Applications

Sample:

Lane 1: Mouse Uterus tissue lysates

Lane 2: Mouse Liver tissue lysates

Lane 3: Rat Uterus tissue lysates

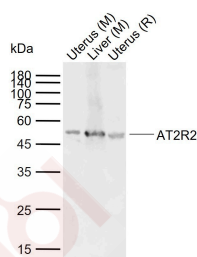
Verified Activity:

Primary: Anti-AT2R2 (TMAB-00156) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 41 kDa

Observed band size: 50 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 angiotensin II receptor type 2
Antigen Species:	Human
Gene ID:	186
Uniprot ID:	P50052
Synonyms:	AGTR2;AGTR 2;AT2;Type 2 angiotensin II receptor;Angiotensin II Type 2;MRX 88;ATGR2;AT 2; Angiotensin II type-2 receptor;angiotensin II receptor type 2;ATGR 2;AT2R2;MRX88;Angiotensin receptor 2
Biology Area:	Apoptosis,Blood Pressure regulation,GPCR,PLC

Research Background

Angiotensin II (Ang II) is an important physiological effector of blood pressure and volume regulation through vasoconstriction, aldosterone release, sodium uptake and thirst stimulation. Although Ang II interacts with two types of cell surface receptors, AT1 and AT2, most of the major cardiovascular effects seem to be mediated through AT1. Molecular cloning of the AT1 protein has shown it to be a member of the G protein-associated seven transmembrane protein receptor family. Ang II treatment of cells results in activation of several signal transduction pathways as evidenced by tyrosine phosphorylation of several proteins and induction of others. PLC β is phosphorylated after 30 seconds of treatment with Angiotensin II, indicating this as an early signal transduction event. Ang II treatment also stimulates phosphorylation of Shc, FAK and MAP kinases, and induces MKP-1, indicating stimulation of growth factor pathways. Ang II stimulation through AT1 has been shown to activate the JAK/Stat pathway involving a direct interaction between JAK2 and AT1 as demonstrated by coimmunoprecipitation. The AT1 receptor has no cytoplasmic kinase domain, but is able to function as a substrate for Src kinases and has several putative phosphorylation sites.

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