Data Sheet (Cat.No.TMAB-05034)

Anti-DDR2 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human
Molecular Weight:	Theoretical: 92 kDa. Actual: 48 kDa.

Applications

Verified Activity:	1. Measured by its binding ability in a indirect ELISA. Immobilized Human DDR2 protein, His Tag at 2 μg/mL (100 μL/well) can bind Rabbit Anti-Human DDR2 Antibody, the EC50 is 532.4 ng/mL. 2. Sample: Lane 1: Recombinant human DDR2 protein Primary: Anti-DDR2 (TMAB-05034) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 92 kDa
Application:	WB,ELISA
Recommended	WB: 1:500-2000; ELISA: 1:5000-10000

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:	Recombinant Protein: human DDR2 protein
Antigen Species:	Human
Gene ID:	4921
Uniprot ID:	Q16832

Research Background

Receptor tyrosine kinases (RTKs) play a key role in the communication of cells with their microenvironment. These molecules are involved in the regulation of cell growth, differentiation, and metabolism. In several cases the biochemical mechanism by which RTKs transduce signals across the membrane has been shown to be ligand induced receptor oligomerization and subsequent intracellular phosphorylation. This autophosphorylation leads to phosphorylation of cytosolic targets as well as association with other molecules, which are involved in pleiotropic effects of signal transduction. RTKs have a tripartite structure with extracellular, transmembrane, and cytoplasmic regions. This gene encodes a member of a novel subclass of RTKs and contains a distinct extracellular region encompassing a factor VIII-like domain. Alternative splicing in the 5' UTR results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008].

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