



Anti-DDR2 (aa 277-377) polyclonal antibody (DPAB-DC2058)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	DDR2 (AAH52998, 277 a.a. ~ 377 a.a) partial recombinant protein with GST tag. The sequence is RIRNFTTMKVHCNNMFAKGVKIFKEVQCYFRSEASEWEPNAISFPLVLDVNPSARFVT PLHHRMASAIKCQYHFADTWMMFSEITFQSDAAMYNNSEAL
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	DDR2 discoidin domain receptor tyrosine kinase 2 [Homo sapiens (human)]
Official Symbol	DDR2
Synonyms	DDR2; discoidin domain receptor tyrosine kinase 2; TKT; MIG20a; NTRKR3; TYRO10; discoidin domain-containing receptor 2; tyrosylprotein kinase; hydroxyaryl-protein kinase; discoidin domain receptor 2; tyrosine-protein kinase TYRO10; CD167 antigen-like family member B; cell migration-inducing protein 20; migration-inducing gene 16 protein; receptor protein-tyrosine kinase TKT; discoidin domain receptor family, member 2; neurotrophic tyrosine kinase receptor related 3; neurotrophic tyrosine kinase, receptor-related 3; discoidin domain-containing receptor tyrosine kinase 2;
Entrez Gene ID	4921
Protein Refseq	NP_001014796
UniProt ID	A0A024R906
Chromosome Location	1q23.3
Pathway	Endochondral Ossification; Non-integrin membrane-ECM interactions;
Function	ATP binding; collagen binding; protein binding; protein tyrosine kinase collagen receptor activity