

DDR1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1198a

Product Information

Application	WB, E
Primary Accession	Q08345
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2G4E12
Isotype	IgG1
Calculated MW	101128 Da
Description	DDR1: discoidin domain receptor tyrosine kinase 1. 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. The protein encoded by this gene is a RTK that is widely expressed in normal and transformed epithelial cells and is activated by various types of collagen. This protein belongs to a subfamily of tyrosine kinase receptors with a homology region to the Dictyostelium discoideum protein discoidin I in their extracellular domain. Its autophosphorylation is achieved by all collagens so far tested (type I to type VI). In situ studies and Northern-blot analysis showed that expression of this encoded protein is restricted to epithelial cells, particularly in the kidney, lung, gastrointestinal tract, and brain. In addition, this protein is significantly over-expressed in several human tumors from breast, ovarian, esophageal, and pediatric brain. This gene is located on chromosome 6p21.3 in proximity to several HLA class I genes. Alternative splicing of this gene results in multiple transcript variants.
Immunogen	Purified recombinant fragment of DDR1 (aa602-681) expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Other Names	Epithelial discoidin domain-containing receptor 1, Epithelial discoidin domain receptor 1, 2.7.10.1, CD167 antigen-like family member A, Cell adhesion kinase, Discoidin receptor tyrosine kinase, HGK2, Mammary carcinoma kinase 10, MCK-10, Protein-tyrosine kinase 3A, Protein-tyrosine kinase RTK-6, TRK E, Tyrosine kinase DDR, Tyrosine-protein kinase CAK, CD167a, DDR1, CAK, EDDR1, NEP, NTRK4, PTK3A, RTK6, TRKE
Dilution	WB~~1/500 - 1/2000 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

DDR1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

References

1. FASEB J. 2000 May;14(7):973-81. 2. Exp Eye Res. 2001 Jan;72(1):87-92. 3. Proc Natl Acad Sci U S A. 2002 Dec 24;99(26):16899-903.

Images

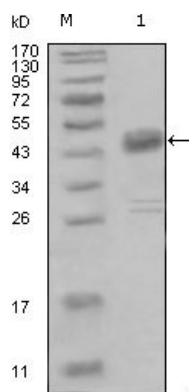


Figure 1: Western blot analysis using DDR1 mouse mAb against truncated MBP-DDR1 recombinant protein (1).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.