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Product datasheet for AM06255SU-N

MCK10 (DDR1) Mouse Monoclonal Antibody [Clone ID: 2G4E12]

Product data:

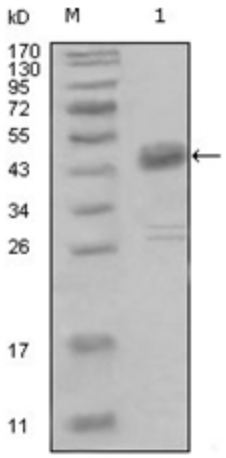
Product Type:	Primary Antibodies
Clone Name:	2G4E12
Applications:	WB
Recommended Dilution:	**ELISA:** 1/10000. **Western Blot:** 1/500-1/2000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified Recombinant fragment of DDR1 (aa 602-681) expressed in E. coli
Specificity:	Recognizes Human Discoidin domain receptor tyrosine kinase 1 (DDR1).
Formulation:	State: Ascites State: Ascitic fluid Preservative: 0.03% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	discoidin domain receptor tyrosine kinase 1
Database Link:	Entrez Gene 780 Human Q08345

View online »

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. 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.

Synonyms: Tyrosine kinase DDR-1, CAK, EDDR1, NEP, NTRK4, PTK3A, RTK6, TRKE, MCK10, Epithelial discoidin domain receptor 1

Product images:



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