

ARG55092 anti-DDR1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes DDR1
Tested Reactivity	Hu
Tested Application	WB
Host	Mouse
Clonality	Monoclonal
Clone	1464CT339.1.54
Isotype	IgG2b, kappa
Target Name	DDR1
Species	Human
Immunogen	Human DDR1 Recombinant protein.
Conjugation	Un-conjugated
Alternate Names	PTK3; Discoidin receptor tyrosine kinase; PTK3A; CAK; Tyrosine-protein kinase CAK; NEP; NTRK4; Epithelial discoidin domain-containing receptor 1; HGK2; Protein-tyrosine kinase RTK-6; TRKE; EDDR1; DDR; Tyrosine kinase DDR; CD167 antigen-like family member A; MCK-10; CD antigen CD167a; Protein-tyrosine kinase 3A; TRK E; CD167; Cell adhesion kinase; RTK6; Epithelial discoidin domain receptor 1; MCK10; EC 2.7.10.1; Mammary carcinoma kinase 10

Application Instructions

Application table	<table><thead><tr><th>Application</th><th>Dilution</th></tr></thead><tbody><tr><td>WB</td><td>1:1000</td></tr></tbody></table>	Application	Dilution	WB	1:1000
Application	Dilution				
WB	1:1000				
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.				
Positive Control	MCF7				

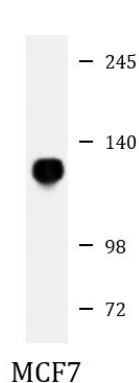
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 780 Human Swiss-port # Q08345 Human
Gene Symbol	DDR1
Gene Full Name	discoidin domain receptor tyrosine kinase 1
Background	Receptor tyrosine kinases play a key role in the communication of cells with their microenvironment. These kinases are involved in the regulation of cell growth, differentiation and metabolism. The protein encoded by this gene belongs to a subfamily of tyrosine kinase receptors with homology to Dictyostelium discoideum protein discoidin I in their extracellular domain, and that are activated by various types of collagen. Expression of this protein is restricted to epithelial cells, particularly in the kidney, lung, gastrointestinal tract, and brain. In addition, it has been shown to be significantly overexpressed in several human tumors. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Feb 2011]
Function	Tyrosine kinase that functions as cell surface receptor for fibrillar collagen and regulates cell attachment to the extracellular matrix, remodeling of the extracellular matrix, cell migration, differentiation, survival and cell proliferation. Collagen binding triggers a signaling pathway that involves SRC and leads to the activation of MAP kinases. Regulates remodeling of the extracellular matrix by up-regulation of the matrix metalloproteinases MMP2, MMP7 and MMP9, and thereby facilitates cell migration and wound healing. Required for normal blastocyst implantation during pregnancy, for normal mammary gland differentiation and normal lactation. Required for normal ear morphology and normal hearing (By similarity). Promotes smooth muscle cell migration, and thereby contributes to arterial wound healing. Also plays a role in tumor cell invasion. Phosphorylates PTPN11. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Neuroscience antibody
Calculated Mw	101 kDa
PTM	Autophosphorylated in response to fibrillar collagen binding. Glycosylation of Asn-211, but apparently not of Asn-260, Asn-371, or Asn-394, prevents autophosphorylation from occurring in the absence of collagen.
Cellular Localization	Isoform 1: Cell membrane; Single-pass type I membrane protein Isoform 3: Secreted.

Images



ARG55092 anti-DDR1 antibody WB image

Western blot: 20 µg of MCF7 cell lysate stained with ARG55092 anti-DDR1 antibody at 1:1000 dilution.