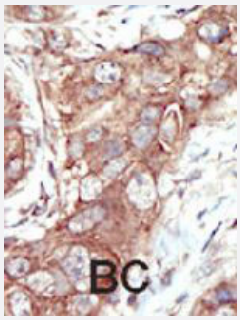
DDR1 polyclonal antibody

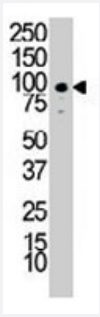
Catalog # PAB3365 Size 400 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with DDR1 polyclonal antibody (Cat # PAB3365) , which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry ; clinical relevance has not been evaluated. BC = breast carcinoma.



Western Blot (Tissue lysate)

Western blot analysis of DDR1 polyclonal antibody (Cat # PAB3365) in placenta lysate. MCK10 (arrow) was detected using purified polyclonal antibody. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of DDR1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to 24-54 amino acids at N-terminus of hum an DDR1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

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Recommend Usage	Flow Cytometry (1:10-50) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:10-50) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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Gene Info — DDR1

Entrez GeneID	780
Protein Accession#	NP_054699;Q08345
Gene Name	DDR1
Gene Alias	CAK, CD167, DDR, EDDR1, MCK10, NEP, NTRK4, PTK3, PTK3A, RTK6, TRKE
Gene Description	discoidin domain receptor tyrosine kinase 1
Omim ID	600408
Gene Ontology	Hyperlink

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Gene Summary	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. [provided by RefSeq
Other Designations	OTTHUMP00000029343|OTTHUMP00000029344|OTTHUMP00000029345|OTTHUMP00000029346|OTTHUMP00000029347|PTK3A protein tyrosine kinase 3A|cell adhesion kinase|discoidin domain receptor DDR1d|discoidin domain receptor family, member 1|discoidin receptor tyrosine kin

Publication Reference

- The discoidin domain receptor tyrosine kinases are activated by collagen.

  Vogel W, Gish GD, Alves F, Pawson T.

  Molecular Cell 1997 Dec; 1(1):13.

  Application: WB-Ce, WB-Tr, Human, HEK 293, T47D cells

- The genomic structure of discoidin receptor tyrosine kinase.

  Playford MP, Butler RJ, Wang XC, Katso RM, Cooke IE, Ganesan TS.

  Genome Research 1996 Jul; 6(7):620.

  Application: WB-Ce, WB-Tr, Human, Mammalian cells

Disease

- Abortion
- Arthritis
- Disease Progression
- Disease Susceptibility
- Genetic Predisposition to Disease
- Glomerulonephritis

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- Leukemia
- Lupus Erythematosus
- Schizophrenia
- Vitiligo

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