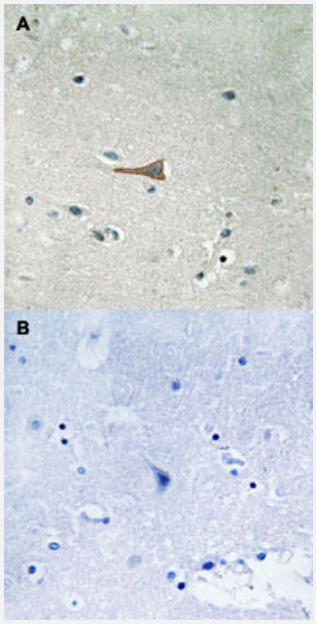
DDR1 (phospho Y513) polyclonal antibody

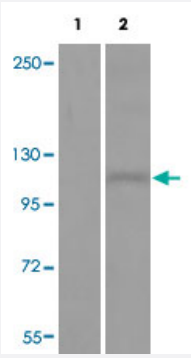
Catalog # PAB29227 Size 100 uL

Applications



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

Immunohistochemical staining of human brain tissue by DDR1 (phospho Y513) polyclonal antibody (Cat # PAB29227) without blocking peptide (A) or preincubated with blocking peptide (B) under 1:50-1:100 dilution.



Western Blot (Cell lysate)

Western blot analysis of Lane 1: antigen-specific peptide treated JK cells, Lane 2: JK cells with DDR1 (phospho Y513) polyclonal antibody (Cat # PAB29227) at 1:500-1000 dilution.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of human DDR1.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding Y513 of human DDR1.

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Host	Rabbit
Theoretical MW (kDa)	110
Reactivity	Human, Mouse, Rat
Specificity	This antibody detects endogenous levels of DDR1 only when phosphorylated at tyrosine 513.
Form	Liquid
Purification	Affinity purification
Recommend Usage	Immunohistochemistry (1:50-1:100) Western Blot (1:500-1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (without Mg^{2+} and Ca^{2+}), (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Avoid repeated freezing and thawing.

Applications

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

  Immunohistochemical staining of human brain tissue by DDR1 (phospho Y513) polyclonal antibody (Cat # PAB29227) without blocking peptide (A) or preincubated with blocking peptide (B) under 1:50-1:100 dilution.

- Western Blot (Cell lysate)

  Western blot analysis of Lane 1: antigen-specific peptide treated JK cells, Lane 2: JK cells with DDR1 (phospho Y513) polyclonal antibody (Cat # PAB29227) at 1:500-1000 dilution.

Gene Info — DDR1

Entrez GeneID	780
Protein Accession#	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

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Gene Ontology	Hyperlink
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

Disease

- Abortion
- Arthritis
- Disease Progression
- Disease Susceptibility
- Genetic Predisposition to Disease
- Glomerulonephritis
- Leukemia
- Lupus Erythematosus
- Schizophrenia
- Vitiligo

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