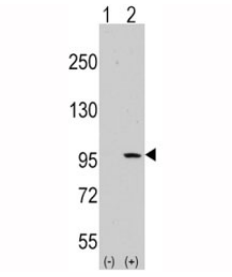
DDR1 Antibody (F50284)

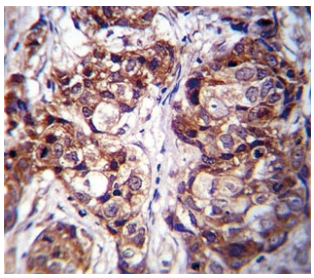
Catalog No.	Formulation	Size
F50284-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50284-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

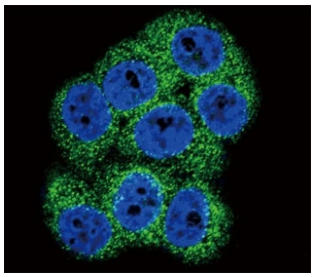
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	Q08345
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:10-1:50 Immunofluorescence : 1:10-1:50 Flow Cytometry : 1:10-1:50
Limitations	This DDR1 antibody is available for research use only.



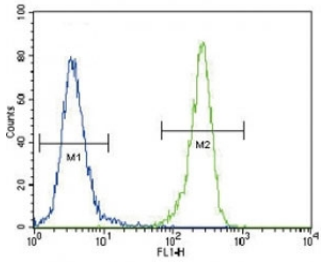
Western blot analysis of DDR1 antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the DDR1 gene (2). Predicted molecular weight: 100~125KD.



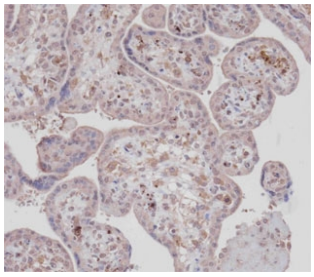
DDR1 antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma.



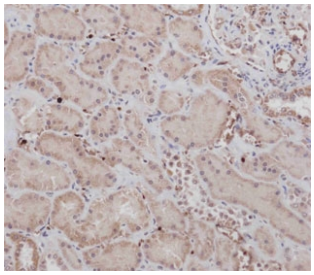
Confocal immunofluorescent analysis of DDR1 antibody with 293 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used as a nuclear counterstain (blue).



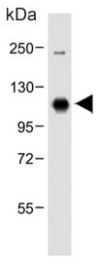
DDR1 antibody flow cytometric analysis of 293 cells (right histogram) compared to a negative control (left histogram). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.



IHC testing of FFPE human placental tissue with DDR1 antibody. HIER: steam section in pH9 EDTA buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human kidney tissue with DDR1 antibody. HIER: steam section in pH9 EDTA buffer for 20 min and allow to cool prior to staining.



Western blot testing of human A431 cell lysate with DDR1 antibody. Expected molecular weight: 100~125 kDa.

Description

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. DDR1 is an RTK that is widely expressed in normal and transformed epithelial cells and is activated by various types of collagen. It 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 show that expression of DDR1 is restricted to epithelial cells, particularly in the kidney, lung, gastrointestinal tract, and brain. In addition, it is significantly over-expressed in several human tumors from breast, ovarian, esophageal, and pediatric brain.

Application Notes

Titration of the DDR1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 299-330 from the human protein was used as the immunogen for this DDR1 antibody.

Storage

Aliquot the DDR1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.