

DDR2 Antibody

✓ 100 µl
(10 western blots)



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For Research Use Only. Not For Use In Diagnostic Procedures.

Entrez-Gene ID #4921
Swiss-Prot Acc. #Q16832

Applications W, IP Endogenous	Species Cross-Reactivity* H, R	Molecular Wt. 120-140 kDa	Source Rabbit**
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Background: The discoidin domain receptors (DDR) are receptor tyrosine kinases with a discoidin homology repeat in their extracellular domains, activated by binding to extracellular matrix collagens. So far, two mammalian DDRs have been identified: DDR1 and DDR2 (1). They are widely expressed in human tissues and may have roles in smooth muscle cell-mediated collagen remodeling (2). Aberrant expression and signaling of DDRs have been implicated in human disease related to increased matrix degradation and remodeling, such as cardiovascular disease, liver fibrosis, and tumor invasion (1).

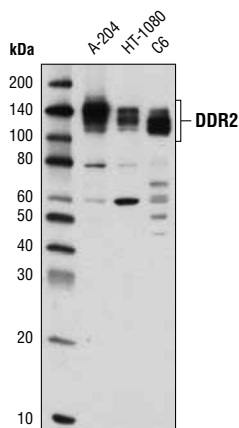
Injection of colon tumor cells into DDR2 knock out mice predisposes the hepatic stellate cells to colon tumor metastasis (3).

Specificity/Sensitivity: DDR2 Antibody detects endogenous levels of total DDR2 protein. This antibody also cross-reacts with 60 and 80 kDa proteins of unknown origin.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu491 of human DDR2 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

- (1) Vogel, W. (1999) *FASEB J.* 13 Suppl, S77-S82.
- (2) Ferri, N. et al. (2004) *Am. J. Pathol.* 164, 1575-1585.
- (3) Badiola, I. et al. (2011) *Gut*, .



Western blot analysis of extracts from A-204, HT-1080, and C6 cells using DDR2 Antibody.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting 1:1000
Immunoprecipitation 1:100

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.