

Anti-human DDR1 Rabbit Polyclonal

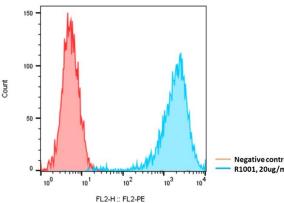
Catalog Number: R1001

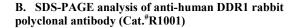
SPECIFICATIONS

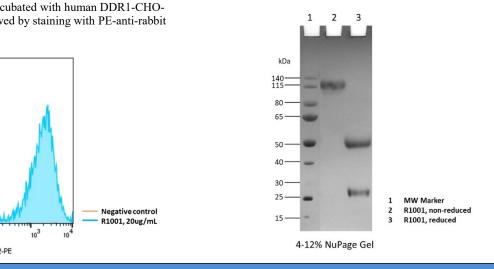
Catalog Number	R1001
Product Name	Anti-human DDR1 antibody rabbit polyclonal antibody
Source	Purified from rabbit serum; rabbits immunized with human DDR1 ECD protein
Species Reactivity	Human
Isotype	Rabbit IgG
Formulation	1x PBS, pH6.8. Sterile
Stability & Storage	1 month at 4°C; 12 months at <-20°C; Avoid repeated freeze-thaw
Purity	>95%
Protein Aggregation	Not obvious on SDS-PAGE
Application	Flow cytometry, ELISA, cell-based assay

Α. Flow cytometry

Detection of human DDR1 on Human DDR1-CHO-K1 cells (Cat. # C3030) by flow cytometry. Anti-human DDR1 rabbit polyclonal antibody (Cat. #R1001) was incubated with human DDR1-CHO-K1 cells (Cat. # C3030), followed by staining with PE-anti-rabbit IgG.







BACKGROUND

DDR1 (discoidin domain receptor tyrosine kinase 1), also known as CD167, CAK, DDR, NEP, HGK2, PTK3, RTK6, TRKE, EDDR1, MCK10, NTRK4, and PTK3A, is a receptor tyrosine kinase (RTK) and belongs to a subfamily of tyrosine kinase receptors with a homology region to the Dictyosteliumdiscoideum protein discoidin I in its extracellular domain. DDR1 consists of three regions (an extracellular ligand binding domain, a transmembrane domain, and an intracellular region containing a kinase domain), with its kinase activity induced by receptor-specific ligand binding. Collagen binding to DDR1 stimulates its autophosphorylation, activating kinase activity and signaling to downstream signaling pathways. DDR1 expression is restricted to epithelial cells, particularly in the kidney, lung, gastrointestinal tract, and brain and is significantly over-expressed in several human tumors from breast, ovarian, esophageal, and brain. DDR1 plays a key role in the development and progression of breast and ovarian cancer and is a promising therapeutic target.

References

Johnson, J. D., Edman, J. C., Rutter, W. J., Proc. Nat. Acad. Sci. 90: 5677-5681, 1993. Chen, L., et al, Frontiers in Cell and Dev. Bio.747314, 2021

Disclaimer: For research use only. Not for use in humans.



Anti-human DDR1 Antibody AB2041

Catalog Number: A1016

Letinger, B.,*Int Rev Cell Mol Biol.*, 310: 39-87, 2014 Vogel, W., et al., *Mol. Cell*, 1: 13–23, 1997