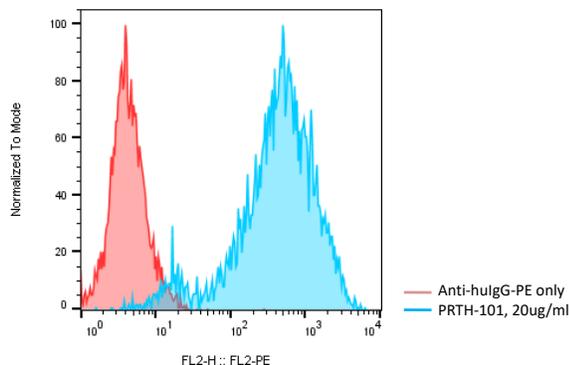


SPECIFICATIONS

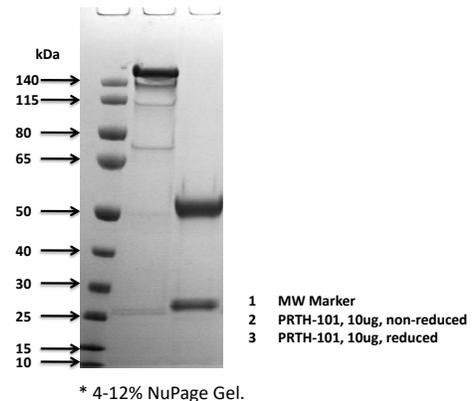
Catalog Number	A1039
Product Name	Anti-human DDR1 antibody PRTH-101
Source	Recombinant anti-human DDR1mAb produced from HEK293 cells
Clone	PRTH-101(VH and VL sequences are derived from Liu J et al, 2023)
Species Reactivity	Human
Isotype	Human IgG1
Lot Number	#1123
Concentration	0.5 mg/mL
Formulation	50mM Na Acetate, pH5.2, 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

DATA

A. Flow cytometry: Detection of human DDR1 on Human DDR1-CHO-K1 cells (Cat. # C3030) by flow cytometry. Anti-human DDR1 antibody PRTH-101 (Cat. # A1039) was incubated with human DDR1-CHO-K1 cells (Cat. # C3030), followed by staining with PE-anti-human IgG.



B. SDS-PAGE analysis of anti-human DDR1 PRTH-101 (Cat. #A1039)



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 *Dictyostelium discoideum* 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.

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References

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