



Anti-human DDR1 Antibody

ORDERING INFORMATION

Catalog Number: AF2396

Lot Number: UJY01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human DDR1 extracellular domain

Immunogen: NS0-derived rhDDR1 extracellular domain

Ig Type: goat IgG

Applications: Western blot
Immunohistochemistry
Direct ELISA

Preparation

Produced in goats immunized with purified, NS0-derived, recombinant human Discoidin Domain Receptor 1 (rhDDR1) extracellular domain. Human DDR1 specific IgG was purified by human DDR1 affinity chromatography. DDR1 is a type I transmembrane glycoprotein belonging to the discoidin-like domain containing subfamily of receptor tyrosine kinases. It is a receptor for collagen. The membrane-anchored receptor can be proteolytically processed to generate a soluble subunit. The extracellular domain of human DDR1 shares approximately 95% amino acid sequence identity with rat and mouse DDR1.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Endotoxin Level

< 0.1 EU per 1 µg of the antibody as determined by the LAL method.

Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for its ability to recognize human DDR1 in the applications listed below.

Applications

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human DDR1. The detection limit for rhDDR1 is approximately 5 ng/lane under non-reducing and reducing conditions.

Immunohistochemistry - This antibody will detect DDR1 in cells and tissues. The working dilution is 15 µg/mL. For chromogenic detection of labeling, use R&D Systems' Cell and Tissues Staining Kits (CTS Series).

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human DDR1. The detection limit for rhDDR1 is approximately 0.5 ng/well. In this format, this antibody shows approximately 5% cross-reactivity with rhDDR2.

Optimal dilutions should be determined by each laboratory for each application.