

Catalog Number: Eg3226

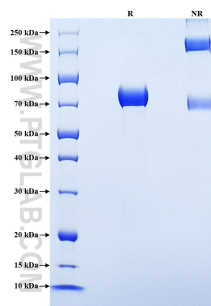
Basic Information	Species: Rat	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/μg protein, LAL method Source: HEK293-derived Rat DDR1 protein Asp22-Thr413 (Accession# A6KT95) with a rabbit IgG Fc tag at the C-terminus. GeneID: 25678 Accession: A6KT95 Predicted Molecular Mass: 69.9 kDa SDS-PAGE: 70-85 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	Discoidin Domain Receptor 1 (DDR1) is a receptor tyrosine kinase that is activated by fibrillar collagens, playing a pivotal role in cellular functions such as proliferation, differentiation, invasion, migration, survival, matrix remodeling, and cytokine expression. DDR1 is predominantly found in epithelial and smooth muscle cells, and its expression is mainly limited to epithelial cells located in several organs, including skin, kidney, liver, and lung. DDR1 has been implicated in a wide range of human diseases, including various types of cancer, fibrosis (such as liver/kidney/pulmonary fibrosis), inflammation, and atherosclerosis. High expression or mutation of DDR1 is associated with many cancers.		
References	1. Liu M. et al. (2024). Eur J Med Chem. 268:116291. 2. Moll S. et al. (2019). Biochim Biophys Acta Mol Cell Res. 1866(11):118474. 3. Hou G. et al. (2002). Circ Res. 90(11):1147-1149.		
Synonyms	CAK, CD167 antigen-like family member A, CD1671, CD167a, Cell adhesion kinase		

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Rat DDR1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.