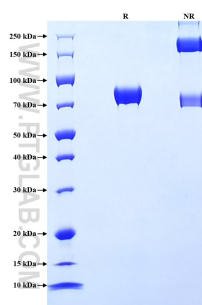


Recombinant Human DDR1 protein (rFc Tag)

Catalog Number: Eg1675

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	<p>Purity: >90 %, SDS-PAGE</p> <p>Endotoxin Level: <0.1 EU/ µg protein, LAL method</p> <p>Source: HEK293-derived Human DDR1 protein Asp21-Thr416 (Accession# Q08345-1) with a rabbit IgG Fc tag at the C-terminus.</p> <p>GeneID: 780</p> <p>Accession: Q08345-1</p> <p>Predicted Molecular Mass: 70.2 kDa</p> <p>SDS-PAGE: 70-90 kDa, reducing (R) conditions</p> <p>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.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p>Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none">• Until expiry date, -20°C to -80°C as lyophilized proteins.• 3 months, -20°C to -80°C under sterile conditions after reconstitution. <p>Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>DDR1, or Discoidin Domain Receptor 1, is a member of the receptor tyrosine kinase (RTK) family, which plays a significant role in various cellular processes including cell proliferation, adhesion, migration, and extracellular matrix (ECM) remodeling. DDR1 is known for its unique discoidin domain that allows it to bind specifically to certain collagens, initiating downstream signaling pathways that can lead to cell transformation and tumor progression (PMID: 38580164). Abnormal activation of DDR1 is closely associated with the development of various solid tumors. It mediates various signal pathways to stimulate cancer cell invasion, migration, and drug resistance. The extracellular domain of DDR1 enhances the tumor microenvironment by inhibiting tumor T-cell infiltration and promoting tumor growth.</p>		
References	<ol style="list-style-type: none">1. Wu D. et al. (2024). Drug Discov Today. 29(5):103975.2. Liu M. et al. (2024). Eur J Med Chem. 268:116291.3. Yang L. et al. (2023). Sci Rep. 13(1):5779.		
Synonyms	CAK, CD167, CD167 antigen-like family member A, CD167a, Cell adhesion kinase		

Selected Validation Data



Purity of Recombinant Human 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.

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

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