abcam

Product datasheet

Recombinant human DDR2 protein (ab96401) ab96401

5 Images

Description

Product name	Recombinant human DDR2 protein (ab96401)
Biological activity	The Specific activity of ab96401 was determined to be 48 nmol/min/mg. The specific activity was determined to be 48 nmol/min/mg.
Purity	> 90 % Densitometry. Affinity purified.
Expression system	Baculovirus infected insect cells
Accession	Q16832
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	70 kDa including tags
Amino acids	467 to 855

Specifications

Our **Abpromise guarantee** covers the use of **ab96401** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Liquid

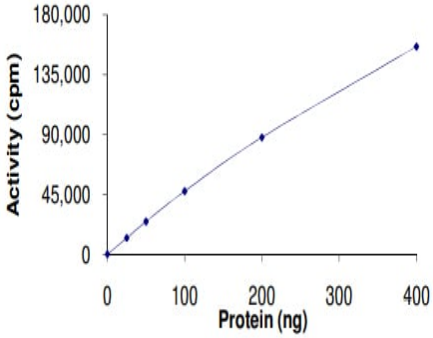
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.307% Glutathione, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

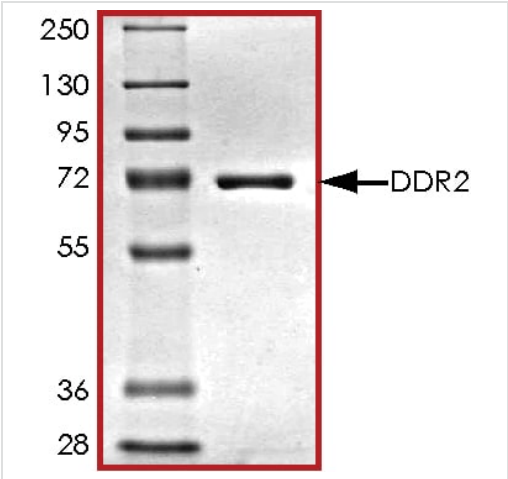
Function	This tyrosine kinase receptor for fibrillar collagen mediates fibroblast migration and proliferation. Contributes to cutaneous wound healing.
Tissue specificity	The major 10 kDa transcript is expressed in high levels in heart and lung, less in brain, placenta, liver, skeletal muscle, pancreas, and kidney.
Involvement in disease	Defects in DDR2 are the cause of spondyloepimetaphyseal dysplasia short limb-hand type (SEMD-SL) [MIM:271665]. A bone disease characterized by short-limbed dwarfism, a narrow chest with pectus excavatum, brachydactyly in the hands and feet, a characteristic craniofacial appearance and premature calcifications. The radiological findings are distinctive and comprise short long bones throughout the skeleton with striking epiphyses that are stippled, flattened and fragmented and flared, irregular metaphyses. Platyspondyly in the spine with wide intervertebral spaces is observed and some vertebral bodies are pear-shaped with central humps, anterior protrusions and posterior scalloping.
Sequence similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily. Contains 1 F5/8 type C domain. Contains 1 protein kinase domain.
Cellular localization	Membrane.

Images



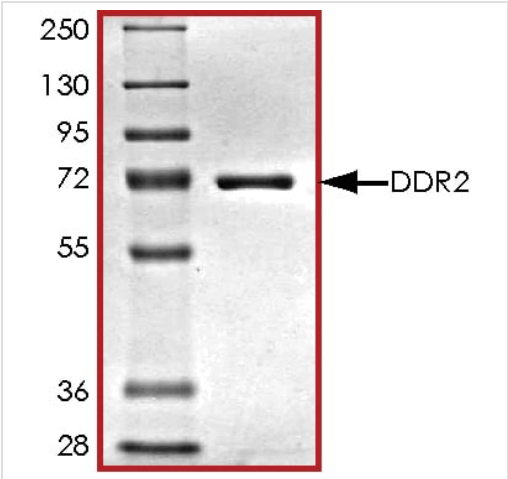
Functional Studies - Recombinant human DDR2 protein (ab96401) (ab96401)

The specific activity of DDR2 (ab96401) was determined to be 41 nmol/min/mg as per activity assay protocol



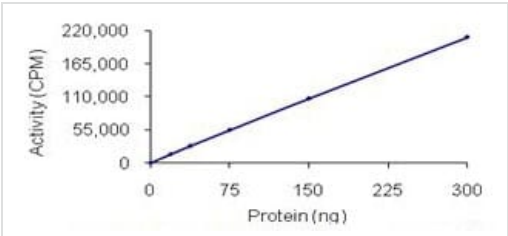
SDS-PAGE - Recombinant human DDR2 protein (ab96401) (ab96401)

SDS PAGE analysis of ab96401



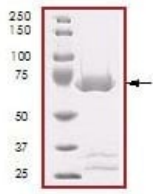
SDS-PAGE - Recombinant human DDR2 protein (ab96401) (ab96401)

SDS PAGE analysis of ab96401



Functional Studies - Recombinant human DDR2 protein (ab96401) (ab96401)

Kinase Assay demonstrating specific activity of ab96401.



SDS-PAGE - Recombinant human DDR2 protein (ab96401) (ab96401)

SDS-PAGE showing ab96401 at approximately 70kDa.

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