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YBD572Ra01 10 $\mu$ g

Recombinant Mitogen Activated Protein Kinase Kinase Kinase 12 (MAP3K12)

Organism Species: *Rattus norvegicus* (Rat)

*Instruction  
manual*

FOR IN VITRO USE AND RESEARCH USE ONLY  
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

9th Edition (Revised in Jul, 2013)

## [ PROPERTIES ]

Residues: Ile158~Ile399 (Accession # Q63796), with two  
N-terminal Tags, His-tag and T7-tag.

Host: *E. coli*

Subcellular Location: Cytoplasm. Membrane;

Peripheral membrane protein.

Purity: >95%

Endotoxin Level: <1.0EU per 1 $\mu$ g  
(determined by the LAL method).

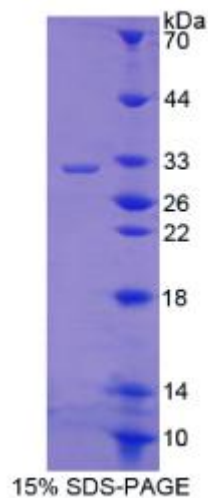
Formulation: Supplied as lyophilized form in 20mM Tris  
150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT,  
0.01% sarcosyl, 5% trehalose, and preservative.

Predicted isoelectric point: 8.9

Predicted Molecular Mass: 31.1kDa

Applications: SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)





## [ USAGE ]

Reconstitute in ddH<sub>2</sub>O.

## [ STORAGE AND STABILITY ]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

## [ SEQUENCES ]

The target protein is fused with two N-terminal Tags, His-tag and T7-tag, its sequence is listed below.

MG S S H H H H H H S S G L V P R G S H M A S M T G G Q Q M G R G S E F- I L D L Q W V G S G A Q G  
A V F L G R F H G E E V A V K K V R D L K E T D I K H L R K L K H P N I I T F K G V C T Q A P C Y C I L M E F C A Q G Q  
L Y E V L R A G R P V T P S L L V D W S M G I A G G M N Y L H L H K I I H R D L K S P N M L I T Y D D V V K I S D F G T  
S K E L S D K S T K M S F A G T V A W M A P E V I R N E P V S E K V D I W S F G V V L W E L L T G E I P Y K D V D S S A  
I I W G V G S N S L H L P V P S S C P D G F K I L L R Q C W N R K P R N R P S F R Q I L L H L D I

## [ REFERENCES ]

1. Hirai S., *et al.* (1996) Oncogene 12:641-650.
2. Hirai S., *et al.* (2002) Development 129:4483-4495.
3. Johnson G.L., Nakamura K. (2007) Biochim. Biophys. Acta 1773:1341-1348.
4. Lubec G., Kang S.U. (2007) Submitted to UniProtKB.