

## RPS6KB1

### Recombinant Human RPS6KB1/p70S6K Active GST-His

<b>Catalog No.</b>	CRS013	<b>Quantity:</b>	50 µg
<b>Alternate Names:</b>	S6K, PS6K, S6K1, STK14A, p70-S6K, p70-alpha, p70(S6K)-alpha		
<b>Description:</b>	Human S6K. Amino acids M <sub>1</sub> -K <sub>400</sub> (as in GenBank entry M60725)*, N-terminally fused to GST-HIS <sub>6</sub> -Thrombin cleavage site. *Sequence may contain documented polymorphisms <b>Detailed sequence on request</b>		
<b>Concentration:</b>	0.422 µg/µl		
<b>Gene ID:</b>	6198		
<b>Protein Accession No:</b>	M60725		
<b>Source:</b>	Baculovirus infected Sf9 cells		
<b>Molecular Weight:</b>	Theoretical MW <sub>Fusion Protein</sub> : 74,253 Da		
<b>Formulation:</b>	50 mM Tris-HCl + pH 8.0 + 100 mM NaCl + 5 mM DTT + 15 mM reduced glutathione, 20% glycerol		
<b>Purification:</b>	One-step affinity purification using GSH-agarose		
<b>Product Identity:</b>	S6K was confirmed as S6K by specific Western Blotting using anti S6K antibody		
<b>Activation:</b>	Activation with PDK1 (GenBank accession No.: NM_002613)		
<b>Specific Activity:</b>	13 pmol/µg×min		

**Method for determination of K<sub>m</sub> value and specific activity:**

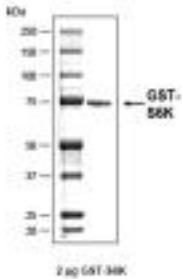
- Assay conditions:  
60 mM HEPES-NaOH, pH 7.5  
3 mM MgCl<sub>2</sub>  
3 mM MnCl<sub>2</sub>  
3 µM Na-orthovanadate  
1.2 mM DTT  
2.5 µg / 50 µl PEG<sub>20,000</sub>  
ATP (variable)  
Substrate: R<sub>11</sub>-S6-Peptide  
(R11-IAKRRLSSLRASTSKSESSQK), 5 µg / 50 µl  
Recombinant S6K: 200 ng / 50 µl
- Filter binding assay  
MAPH membrane (Millipore)



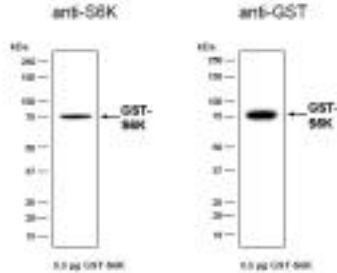
**Storage & Stability:**

Store in working aliquots at  $-80^{\circ}\text{C}$ . **Avoid repeated freeze-thaw cycles.**

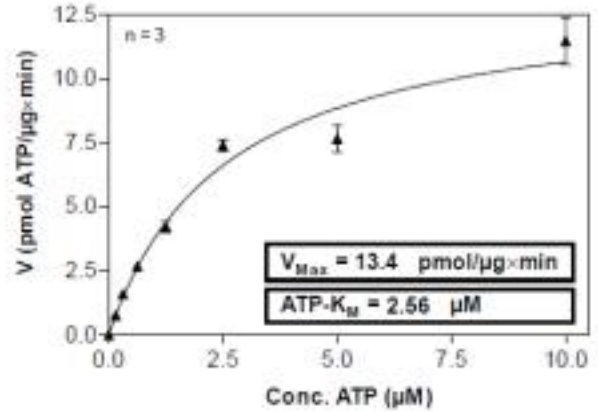
Coomassie stain:



Western blot analysis:



Determination of  $K_m$  value for ATP:



**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**

