

ErbB4

(v-erb-a erythroblastic leukemia viral oncogene homolog 4)

Synonym: HER4

Catalog no.: 7775-5

Lot#: 40775

Description: Human ErbB4

Amino acids R₆₇₆-V₁₃₀₇ (as in GenBank entry NM_005235)*, N-terminally fused to GST-HIS₆-Thrombin cleavage site

Product identity: ErbB4, Lot 40775, was confirmed as ERBB4 by specific Western Blotting using anti ErbB4 antibody

Theoretical MW_{Fusion Protein}: 102,062 Da

Expression: Baculovirus infected Sf9 cells

Purification: Affinity purification using GSH-agarose

Storage buffer: 50 mM Tris-HCl, pH 8.0; 100 mM NaCl, 5 mM DTT, 15 mM reduced glutathione, 20% glycerol

Storage temperature: -80°C
Avoid repeated freeze-thaw cycles!

Protein concentration: 0.232 µg/µl
(Bradford method using BSA [BioVision, Cat.# K810-1000])

Method for determination of K_m value & Specific activity:

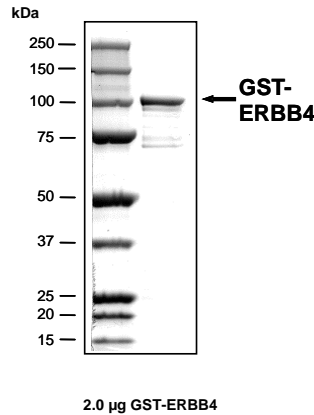
• Assay conditions:

60 mM HEPES-NaOH, pH 7.5
3 mM MgCl₂
3 mM MnCl₂
3 µM Na-orthovanadate
1.2 mM DTT
2.5 µg / 50 µl PEG_{20,000}
ATP (variable)
Substrate: Poly(Glu:Tyr)_{4:1}
(Sigma 20K5903), 1.0 µg / 50 µl
Recombinant ERBB4: 50 ng / 50 µl

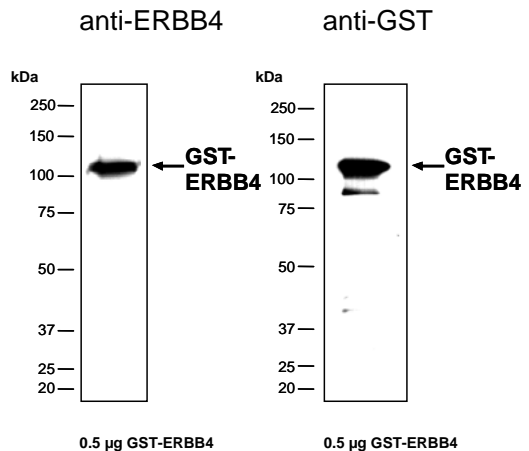
• Filter binding assay: MSFC membrane (Millipore)

Specific activity: 137 pmol/µg×min

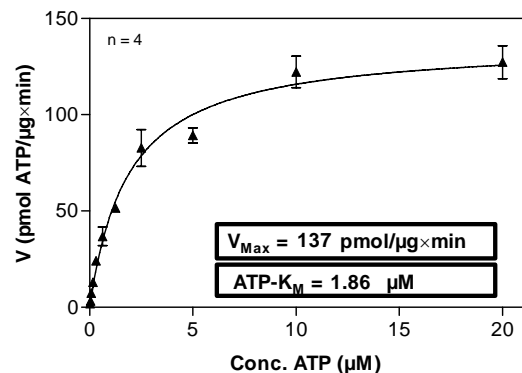
Coomassie stain:



Western blot analysis:



Determination of K_m value for ATP:



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