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Product Datasheet

Mouse SFTPC protein, His tag, Unconjugated GTX00326-PRO

Article Name	Mouse SFTPC protein, His tag, Unconjugated
Biozol Catalog Number	GTX00326-PRO
Supplier Catalog Number	GTX00326-pro
Alternative Catalog Number	GTX00326-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Mouse
Conjugation	Unconjugated
NCBI	20389
UniProt	P21841
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Phe94~Ile193

Application Notes

Surfactant associated proteins (SPC), is one of the pulmonary surfactant proteins. It is a membrane protein which manufactures surfactant. The propeptide of pulmonary surfactant C has an N-terminal alpha-helical segment whose suggested function was stabilization of the protein structure, since the latter can irreversibly transform from its native alpha-helical structure to beta-sheet aggregates and form amyloid fibrils. Besides, Eukaryotic Translation Initiation Factor 2 Alpha Kinase 3 (EIF2aK3) has been identified as an interactor of SPC, thus a binding ELISA assay was conducted to detect the interaction of recombinant mouse SPC and recombinant mouse EIF2aK3. Briefly, SPC were diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to EIF2aK3-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-SPC pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of SPC and EIF2aK3 was in a dose dependent manner.