

Rat SLIT2 protein, His tag

Cat. No. GTX00062-pro

Applications Functional Assay**Species** Rat**Package**

10 µg

Applications

Application Note

Slit is a family of secreted extracellular matrix proteins which play an important signalling role in the neural development of most bilaterians. Humans, mice and other vertebrates possess three Slit homologs: Slit1, Slit2 and Slit3. The Slit2 protein has recently been discovered to be associated with the development of new blood vessels from pre-existing vessels, or angiogenesis. Slit2 has been implicated in promoting angiogenesis in mice (both in vitro and in vivo), in the human placenta, and in tumorigenesis. Besides, Gremlin 1 (GREM1) has been identified as an interactor of Slit2, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat Slit2 and recombinant rat GREM1. Briefly, Slit2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to GREM1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-Slit2 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 37°C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of Slit2 and GREM1 was in a dose dependent manner.

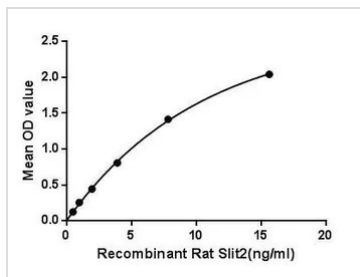
Observed MW (kDa) 20 kDa.

Properties

Form Lyophilized powder**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.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Asn209~Gly374**Expression System** E. coli**Purity** > 95%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

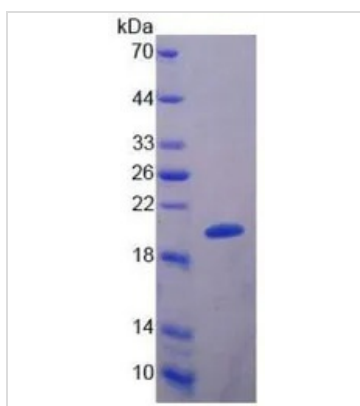
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DATA IMAGES



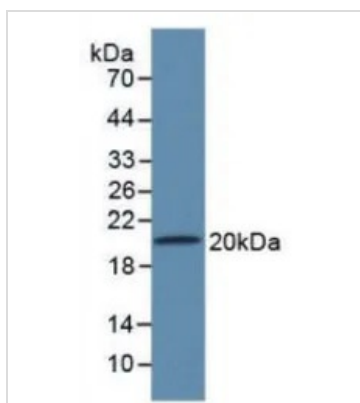
GTX00062-pro Functional Assay Image

Functional ELISA analysis of GTX00062-pro Rat SLIT2 protein which can bind immobilized GREM1 protein.



GTX00062-pro Image

SDS-PAGE analysis of GTX00062-pro Rat SLIT2 protein.



GTX00062-pro Image

WB analysis of GTX00062-pro Rat SLIT2 protein.



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