

Elastase 4 (ELA4) Active Protein | ELA4 active protein

Active Elastase 4 (ELA4)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA148191	E Coli	Rat	Activity Assay, Cell Culture

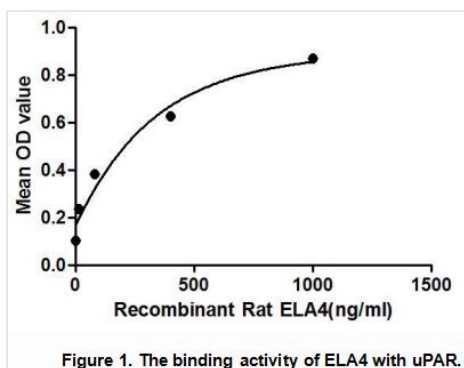
PRODUCT SYNONYMS

Elastase 4 (ELA4); Active Elastase 4 (ELA4); CLCR; CTRC; Chymotrypsin C; Caldecrin; ELA4 active protein

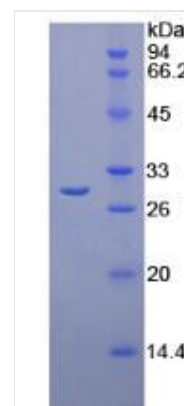
PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Rat
Purity/Purification	> 95%
Form/Format	Freeze-dried powder
Sequence Length	268
Applicable Applications for ELA4 active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Val30~leu268
Isoelectric Point	5.9

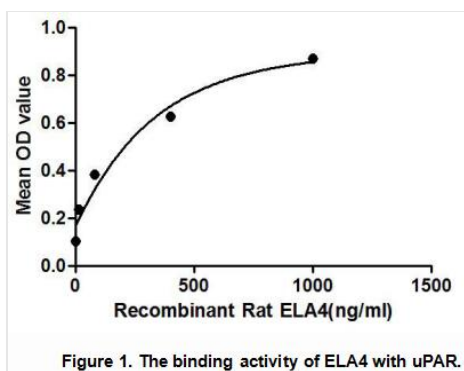
IMAGES



Application Data



SDS-PAGE



Activity

Elastase 4 (ELA4) is a member of the peptidase S1 family. The encoded protein is a serum calcium-decreasing factor that has chymotrypsin-like protease activity. It regulates activation and degradation of trypsinogens and procarboxypeptidases by targeting specific cleavage sites within their zymogen precursors. Has chymotrypsin-type protease activity and hypocalcemic activity. Besides, Plasminogen Activator, Urokinase Receptor (uPAR) has been identified as an interactor of ELA4, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat ELA4 and recombinant rat uPAR. Briefly, ELA4 were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to uPAR-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-ELA4 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 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of ELA4 and uPAR was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for ELA4 active protein	Enzyme & Kinase
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NCBI AND UNIPROT INFORMATION

NCBI GI #	117647210
NCBI GeneID	362653
NCBI Accession #	NP_001071117.1
NCBI GenBank Nucleotide #	NM_001077649.2
UniProt Accession #	P55091; Q63188
Molecular Weight	Predicted Molecular Weight: 30.2kDa Accurate Molecular Weight: 30kDa
NCBI Official Full Name	chymotrypsin-C
NCBI Official Synonym Full Names	chymotrypsin C
NCBI Official Symbol	Ctrc
NCBI Protein Information	chymotrypsin-C
UniProt Protein Name	Chymotrypsin-C
UniProt Gene Name	Ctrc

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.