

Product datasheet for RC220949

PR3 (PRTN3) (NM_002777) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PR3 (PRTN3) (NM_002777) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PR3
Synonyms:	ACPA; AGP7; C-ANCA; CANCA; MBN; MBT; NP-4; NP4; P29; PR-3; PR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220949 representing NM_002777 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCACCGGCCCCAGCCCTGCCCTGGCGTCCGTGCTGCTGGCCTTGCTGCTGAGCGGTGCTGCC
GAGCTGCGGAGATCGTGGGCGGGCAGGAGCGCAGCCACACTCCCGGCCCTACATGGCCTCCCTGCAGAT
GCGGGGAACCCGGGCAGCCACTTCTGCGGAGGCACCTTGATCCACCCAGCTTCGTGCTGACGGCCGCG
CACTGCCTGCGGGACATAACCCAGCGCCTGGTGAACGTGGTCTCGGAGCCACAACGTGCGGACGCAGG
AGCCACCCAGCAGCACTTCTCGGTGGCTCAGGTGTTTCTGAACAACACGACGCGGAGAACTGAA
CGACATTCCTCATCCAGCTGAGCAGCCAGCCAACTCAGTGCCTCCGTGCGCCACAGTCCAGTGCCA
CAGCAGGACCAGCCAGTGCCCCACGGCACCCAGTGCCTGGCCATGGGCTGGGGCCCGTGGGTGCCACG
ACCCCCAGCCAGGTCCTGCAGGAGCTCAATGTACCCTGGTACCTTCTTCTGCCGGCCACATAACAT
TTGCACTTTCGTCCCTCGCCGAAGGCCGGCATCTGCTTCGGAGACTCAGGTGGCCCCCTGATCTGTGAT
GGCATCATCAAGGAATAGACTCCTTCGTGATCTGGGGATGTGCCACCCGCCTTTCCCTGACTTCTTCA
CGCGGGTAGCCCTCTACGTGGACTGGATCCGTTCCACGCTGCGCCGTGTGGAGGCCAAGGGCCGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_002777.4](#)

RefSeq Size: 1001 bp

RefSeq ORF: 771 bp

Locus ID: 5657

UniProt ID: [P24158](#)

Cytogenetics: 19p13.3

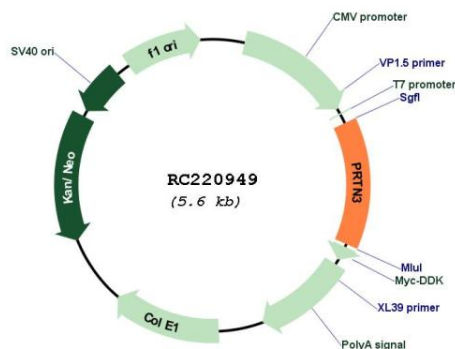
Domains: Tryp_SPc

Protein Families: Druggable Genome, Protease

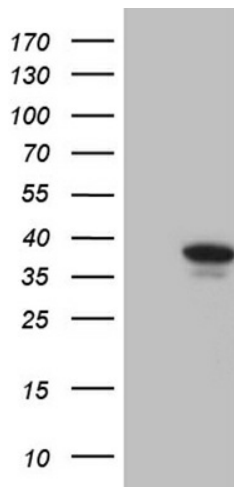
MW: 27.6 kDa

Gene Summary: Serine protease that degrades elastin, fibronectin, laminin, vitronectin, and collagen types I, III, and IV (in vitro) (PubMed:3198760, PubMed:2033050, PubMed:28240246). By cleaving and activating receptor F2RL1/PAR-2, enhances endothelial cell barrier function and thus vascular integrity during neutrophil transendothelial migration (PubMed:23202369). May play a role in neutrophil transendothelial migration, probably when associated with CD177 (PubMed:22266279).[UniProtKB/Swiss-Prot Function]

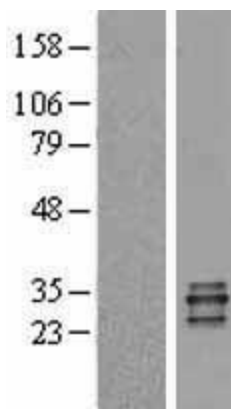
Product images:



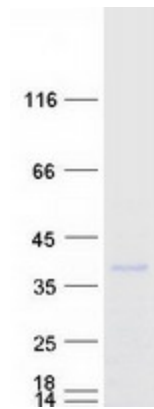
Circular map for RC220949



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PRTN3 (Cat# RC220949, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PRTN3 (Cat# [TA807348])(1:500). Positive lysates [LY400985] (100ug) and [LC400985] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400985]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220949 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PRTN3 protein (Cat# [TP320949]). The protein was produced from HEK293T cells transfected with PRTN3 cDNA clone (Cat# RC220949) using MegaTran 2.0 (Cat# [TT210002]).