

Polyclonal Antibody to Elastase (Neutrophil) - Purified

Catalog No.:	BP429
Quantity:	1 ml
Concentration:	3.6 mg/ml (OD280)
Background:	<p>Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Elastase is a serine protease which exhibits endopeptidase activity on many proteins, its principal substrate, however, is elastin and it is unique among proteases in its ability to hydrolyse native elastin. It is present in the pancreas, leukocytes and serum. Elastase consists of a single polypeptide chain with a molecular weight of 29.5kDa. Humans have six elastase genes which encode the structurally similar proteins elastase 1, 2, 2A, 2B, 3A, and 3B. Like most of the human elastases, elastase 2A is secreted from the pancreas as a zymogen. In other species, elastase 2A has been shown to preferentially cleave proteins after leucine, methionine, and phenylalanine residues. Elastase 1 is not a pancreatic enzyme: clinical literature that describes human elastase 1 activity in the pancreas is actually referring to elastase 2A</p>
Host:	Rabbit
Immunogen:	Purified human Neutrophil Elastase.
Format:	<p>State: Liquid purified Ig fraction. Purification: Ammonium Sulphate Fractionation. Buffer System: PBS, pH 7.2 containing 0.09% Sodium Azide as preservative.</p>
Applications:	<p>ELISA (1/700-1/2800): In a simple ELISA with 5 µg/ml of antigen in the coating buffer, and an HRP conjugated secondary antibody to detect, a 1/1400 dilution of BP429 gave an absorbance of 1.0 at 405 nm. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	<p>This antibody is specific for Neutrophil Elastase. Species: Human. Other species not tested.</p>
Storage:	<p>Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.</p>