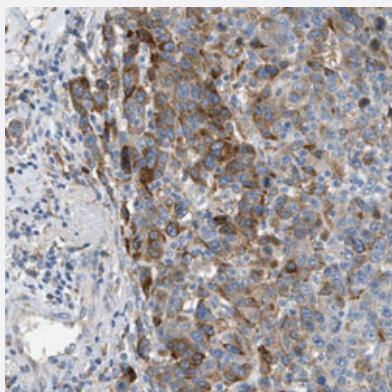


CTSB polyclonal antibody

Catalog # PAB31599

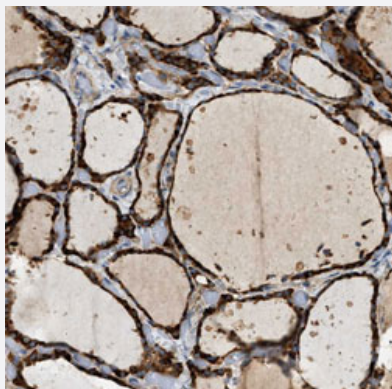
Size 100 uL

Applications



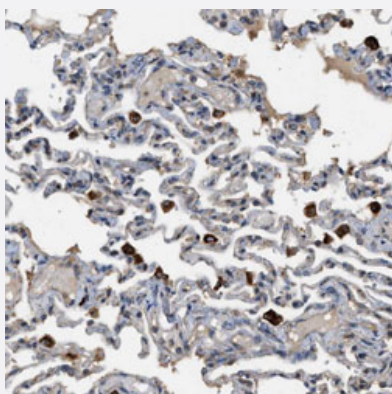
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human breast cancer shows moderate cytoplasmic positivity in tumor cells.



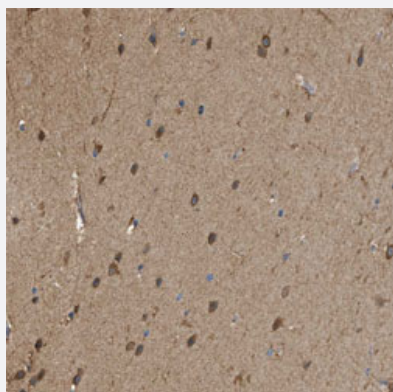
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human thyroid gland shows strong cytoplasmic positivity in glandular cells.



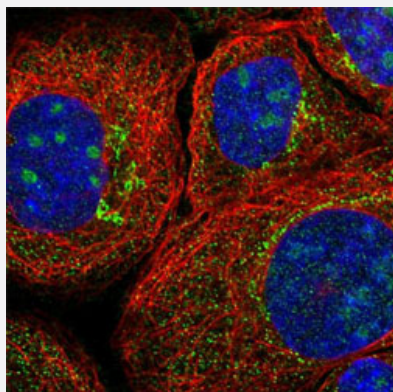
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human lung shows strong cytoplasmic positivity in macrophages.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human cerebellum shows moderate granular cytoplasmic positivity in neuronal cells.



Immunofluorescence

Immunofluorescent staining of A-431 cell line with antibody shows positivity in nucleoli and vesicles (green).

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant human CTSB.
Immunogen	Recombinant protein corresponding to human CTSB.
Sequence	DELVNYV/NKRNTTWQAGHNFYNVDMSYLRKLCGTFLGGPKPPQVRMFTEDLKLPASFDAREQW PQCPTIKEIRDQSGSCGSCWAFGAVEAISDRICHTNAHVSVEVSAEDLLTCCGSMCGDGCNGGYP A
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:500-1000) Immunofluorescence (1-4 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).

Storage Instruction

Store at 4°C. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human breast cancer shows moderate cytoplasmic positivity in tumor cells.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human thyroid gland shows strong cytoplasmic positivity in glandular cells.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human lung shows strong cytoplasmic positivity in macrophages.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human cerebellum shows moderate granular cytoplasmic positivity in neuronal cells.

- Immunofluorescence

Immunofluorescent staining of A-431 cell line with antibody shows positivity in nucleoli and vesicles (green).

Gene Info — CTSB

Entrez GeneID[1508](#)**Protein Accession#**[P07858](#)**Gene Name**

CTSB

Gene Alias

APPS, CPSB

Gene Description

cathepsin B

Omim ID[116810](#)**Gene Ontology**[Hyperlink](#)

Gene Summary

The protein encoded by this gene is a lysosomal cysteine proteinase composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. It is also known as amyloid precursor protein secretase and is involved in the proteolytic processing of amyloid precursor protein (APP). Incomplete proteolytic processing of APP has been suggested to be a causative factor in Alzheimer disease, the most common cause of dementia. Overexpression of the encoded protein, which is a member of the peptidase C1 family, has been associated with esophageal adenocarcinoma and other tumors. At least five transcript variants encoding the same protein have been found for this gene. [provided by RefSeq]

Other Designations

APP secretase|OTTHUMP00000116009|amyloid precursor protein secretase|cathepsin B1|cysteine protease|preprocathepsin B

Publication Reference

- [Profiling of atherosclerotic lesions by gene and tissue microarrays reveals PCSK6 as a novel protease in unstable carotid atherosclerosis.](#)

Perisic L, Hedin E, Razuvaev A, Lengquist M, Osterholm C, Folkersen L, Gillgren P, Paulsson-Berne G, Ponten F, Odeberg J, Hedin U.

Arteriosclerosis, Thrombosis, and Vascular Biology 2013 Oct; 33(10):2432.

Application: IHC-P, Human, Human tissue microarray

- [Heterogeneity in signaling pathways of gastroenteropancreatic neuroendocrine tumors: a critical look at notch signaling pathway.](#)

Wang H, Chen Y, Fernandez-Del Castillo C, Yilmaz O, Deshpande V.

Modern Pathology 2013 Jan; 26(1):139.

Application: IHC-P, Human, Human rectal neuroendocrine tumors

Pathway

- [Antigen processing and presentation](#)
- [Lysosome](#)

Disease

- [Adenocarcinoma](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)

- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Pancreatitis](#)
- [Prostatic Neoplasms](#)
- [Urinary Bladder Neoplasms](#)