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EB11824 - Goat Anti-cathepsin C / DPP1 (aa238-252) Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: cathepsin C, cathepsin J, CPPI, CTSC, dipeptidyl peptidase 1, dipeptidyl peptidase I, dipeptidyl transferase, dipeptidyl-peptidase I, DPP1, DPPI, DPP-I, HMS, JP, JPD, OTTHUMP00000235623, OTTHUMP00000235624, OTTHUMP00000235625, OTTHUMP00000235627, PALS, PLS Official Symbol: CTSC Accession Number(s): NP_001805.3 Human GeneID(s): <u>1075</u> Important Comments: This antibody is expected to recognize isoform a (NP_001805.3) only.

Immunogen

Peptide with sequence C-RNVHGINFVSPVRNQ, from the internal region of the protein sequence according to NP_001805.3.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:128000.

Western blot: Approx 24kDa band observed in Human Neutrophils lysates (calculated MW of 51.8kDa according to NP_001805.3). This molecular weight is routinely observed by other sources. Recommended concentration: 1-3µg/ml. Primary incubation was 1 hour. **IHC:** Paraffin embedded Human Lung and Kidney. Recommended concentration: 5µg/ml.

Species Reactivity

Tested: Human Expected from sequence similarity: Human

Specific References

This antibody has been successfully used in Western blot on Human: N'GUESSAN Koffi, SEREN Seda, DALLET-CHOISY Sandrine, MARCHAND-ADAM Sylvain, DASSE Sery Romualde, KORKMAZ Bric Thérapeutique de la granulomatose avec polyangéite : nouvelle approche par inhibition de la cathepsine C des cellules CD34+ Rev int sc méd Abj -RISM-2019;21,1:32-38. PMID: 0 This antibody has been successfully used in Western blot on Human: Seren S et al

Consequences of cathepsin C inactivation for membrane exposure of proteinase 3, the target antigen in autoimmune vasculitis.

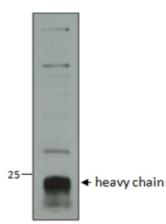
J Biol Chem. 2018 Aug 10;293(32):12415-12428. PMID: 29925593

This antibody has been successfully used in WB on Macaque:

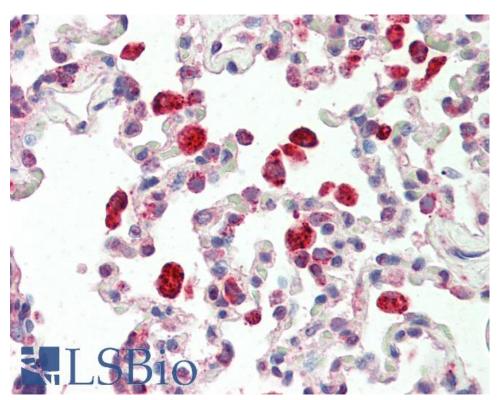
Hamon Y et al Neutrophilic cathepsin C is maturated by a multi-step proteolytic process and secreted by activated cells during inflammatory lung diseases. J Biol Chem. 2016 Feb 16. pii: jbc.M115.707109 PMID: 26884336

This antibody has been successfully used in Western blot on Human: Hamon Y et al

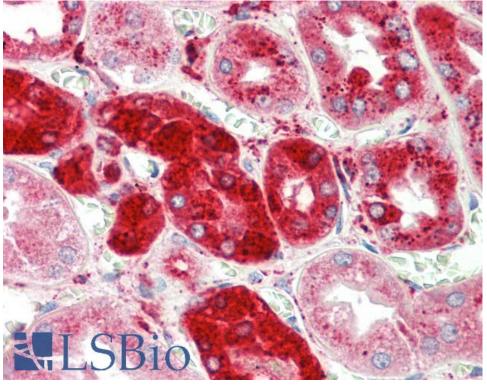
Analysis of urinary cathepsin C for diagnosing Papillon-Lefèvre syndrome. FEBS J. 2016 Feb;283(3):498-509 PMID: 26607765



EB11824 (1µg/ml) staining of Human Neutrophils lysate (35µg protein in RIPA buffer). Data obtained from a customer. Detected by chemiluminescence.



EB11824 (5µg/ml) staining of paraffin embedded Human Lung. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB11824 (5µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.