



Hubert Kalbacher

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Publications (17)

Sinnberg T, Lichtensteiger C, Ali O, Pop O, Risch L, Brugger S, Velic A, Bomze D, Kohler P, Vernazza P, Albrich W, Kahlert C, Abdou M, Wyss N, Hofmeister K, Niessner H, Zinner C, Gilardi M, Tzankov A, Röcken M, Dulovic A, Shambat S, Ruetalo N, Buehler P, Scheier T, Jochum W, Kern L, Henz S, Schneider T, Kuster G, Lampart M, Siegemund M, Bingisser R, Schindler M, Schneiderhan-Marra N, Kalbacher H, McCoy K, Spengler W, Brutsche M, Macek B, Twerenbold R, Penninger J, Matter M, Flatz L, Jochum A. Pulmonary Surfactant Proteins Are Inhibited by Immunoglobulin A Autoantibodies in Severe COVID-19. *Am J Respir Crit Care Med* 2023; 207:38-49.

Kessler T, Reich M, Jahn G, Tolosa E, Beck A, Kalbacher H, Overkleeft H, Schempp S, Driessen C. Human cytomegalovirus infection interferes with major histocompatibility complex type II maturation and endocytic proteases in dendritic cells at multiple levels. *The Journal of general virology* 2008; 89:2427-36.

Zaidi N, Burster T, Sommandas V, Herrmann T, Boehm B, Driessen C, Voelter W, Kalbacher H. A novel cell penetrating aspartic protease inhibitor blocks processing and presentation of tetanus toxoid more efficiently than pepstatin A. *Biochemical and biophysical research communications* 2007; 364:243-9.

Burster T, Kalbacher H, Verhelst S, Weber E, Falk K, Rotzschke O, Dunn S, Boehm B, Marin-Esteban V, Driessen C. Design of protease-resistant myelin basic protein-derived peptides by cleavage site directed amino acid substitutions. *Biochemical pharmacology* 2007; 74:1514-23.

Zaidi N, Herrmann T, Baechle D, Schleicher S, Gogel J, Driessen C, Voelter W, Kalbacher H. A new approach for distinguishing cathepsin E and D activity in antigen-processing organelles. *The FEBS journal* 2007; 274:3138-49.

Burster T, Tolosa E, Overkleeft H, Kalbacher H, Youssef S, Boehm B, Falk K, Roetzschke O, Reich M, Baechle D, Øren A, Poeschel S, Beck A, Driessen C. Interferon-gamma regulates cathepsin G activity in microglia-derived lysosomes and controls the proteolytic processing of myelin basic protein in vitro. *Immunology* 2007; 121:82-93.

Reich M, van Swieten P, Sommandas V, Kraus M, Fischer R, Weber E, Kalbacher H, Overkleeft H, Driessen C. Endocytosis targets exogenous material selectively to cathepsin S in live human dendritic cells, while cell-penetrating peptides mediate nonselective transport to cysteine cathepsins. *Journal of leukocyte biology* 2007; 81:990-1001.

Rückrich T, Driessen C, Reich M, Melms A, Beck A, Wiederanders B, Schilling K, Stevanovic S, Müller M, Cansier A, Brandenburg J, Kalbacher H. Specificity of human cathepsin S determined by processing of peptide substrates and MHC class II-associated invariant chain. *Biol Chem* 2006; 387:1503-11.

Burster T, Overkleeft H, Weber E, Häring H, Kalbacher H, Kraus M, Reich M, Weissert R, Schnorrer P, Tolosa E, Beck A, Driessen C. Differential processing of autoantigens in lysosomes from human monocyte-derived and peripheral blood dendritic cells. *Journal of immunology (Baltimore, Md. : 1950)* 2005; 175:5940-9.

Dengjel J, Rammensee H, Driessen C, Brock R, Kalbacher H, Brandenburg J, Altenberend F, Kreymborg K, Müller M, Kraus M, Reich M, Fischer R, Schoor O, Stevanovic S. Autophagy promotes MHC class II presentation of peptides from intracellular source proteins. *Proceedings of the National Academy of Sciences of the United States of America* 2005; 102:7922-7.

van Swieten P, Ploegh H, van der Marel G, Driessen C, Leeuwenburgh M, Kalbacher H, Wong C, Reich M, Kessler B, van den Nieuwendijk A, Maehr R, Overkleeft H. Development of an isotope-coded activity-based probe for the quantitative profiling of cysteine proteases. *Bioorganic & medicinal chemistry letters* 2004; 14:3131-4.

Burster T, Kalbacher H, Stevanovic S, Lehmann R, Melms A, Wiendl H, Schwarz G, Brandenburg J, Reich M, Lautwein A, Falk K, Rotzschke O, Marin-Esteban V, Tolosa E, Beck A, Driessen C. Cathepsin G, and not the asparagine-specific endoprotease, controls the processing of myelin basic protein in lysosomes from human B lymphocytes. *Journal of immunology (Baltimore, Md. : 1950)* 2004; 172:5495-503.

Lautwein A, Nordheim A, Kalbacher H, Weber E, Kammer W, Schwarz G, Overkleef H, Brandenburg J, Burster T, Reich M, Kraus M, Driessen C. Human B lymphoblastoid cells contain distinct patterns of cathepsin activity in endocytic compartments and regulate MHC class II transport in a cathepsin S-independent manner. *Journal of leukocyte biology* 2004; 75:844-55.

Lautwein A, Burster T, Lennon-Duménil A, Overkleef H, Weber E, Kalbacher H, Driessen C. Inflammatory stimuli recruit cathepsin activity to late endosomal compartments in human dendritic cells. *European journal of immunology* 2002; 32:3348-57.

Schwarz G, Brandenburg J, Reich M, Burster T, Driessen C, Kalbacher H. Characterization of legumain. *Biological chemistry* 2002; 383:1813-6.

Schmid H, Sauerbrei R, Schwarz G, Weber E, Kalbacher H, Driessen C. Modulation of the endosomal and lysosomal distribution of cathepsins B, L and S in human monocytes/macrophages. *Biological chemistry* 2002; 383:1277-83.

Plüger E, Boes M, Alfonso C, Schröter C, Kalbacher H, Ploegh H, Driessen C. Specific role for cathepsin S in the generation of antigenic peptides in vivo. *European journal of immunology* 2002; 32:467-76.

Projects (0)

No results found.

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