## **EMD SEROND**

## receptors 7 and 8

TLR7/8 can sense ssRNA viruses and are implicated in the pathogenesis of autoimmune disease by recognition of self-molecules<sup>1,2</sup>

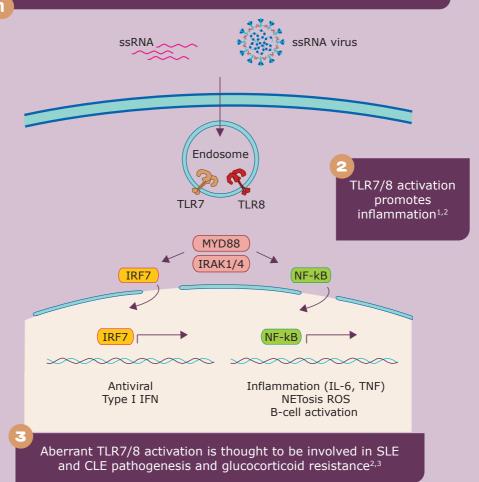


Figure developed based on information from Klopp-Schulze L et al. Clin Pharmacol Ther 2022;112:297–306; Brown GJ et al. Nature 2022;605:349–56; Murphy M et al. Eur J Immunol 2017;47:880–91

CLE, cutaneous lupus erythematosus; IFN, interferon; IL-6, interleukin-6; IRAK1/4, interleukin receptor-associated kinases 1 and 4; IRF7, interferon regulatory factor 7; MYD88, myeloid differentiation primary response 88; NETosis, neutrophil extracellular trap cell death; ROS, reactive oxygen species; NF-kB; nuclear factor-kappa B; SLE, systemic lupus erythematosus; ssRNA, single-stranded ribonucleic acid; TLR, Toll-like receptor; TNF, tumour necrosis factor

## References:

- 1. Klopp-Schulze L et al. Clin Pharmacol Ther 2022;112:297-306
- 2. Bender AT et al. Immunohorizons 2020;4:93–107
- 3. Guiducci C et al. Nature 2010;465:937-41

© 2024 Merck KGaA, Darmstadt, Germany, or its affiliates. All rights reserved EMD Serono is the healthcare business of Merck KGaA, Darmstadt, Germany, in the U.S. and Canada

