# Polyclonal Anti- Autoimmune regulator, Aire

**Catalog#** BPA1005

**Lot #** Check on the product label

**Size** 100 μg

**Isotype** IgG

**Host** Rabbit

**Reactivity**
Mouse

**Product Form** Liquid

**Purification** Immunogen affinity purified

**Immunogen**
A synthetic peptide (conjugated with KLH) corresponding to the region of mouse Aire.

**Recommend Application**
Western Blot, WB (1:1000)
Immunohistochemistry, IHC-P (1:50)
Immunocytochemistry, ICC (1:200)
Other applications have not been tested.
The optimal dilutions should be determined by end user.

**Storage Buffer**
1*PBS (pH7.4), 0.2% BSA, 40% Glycerol and 0.05% Sodium Azide.

**Storage Instruction**
Store at 4°C after thawing (1 week). Aliquot and store at -20°C for long term (at least one year).
Avoid repeated freeze and thaw cycles.

**Background**
The autoimmune regulator (AIRE) is a protein with a calculated molecular mass of 57,723 DA. [1] AIRE is a transcription factor expressed in the medulla of the thymus. The autoimmune regulator is mutated in the rare autoimmune syndrome Autoimmune Polyendocrinopathy Syndrome type 1 (APS-1), also known as Autoimmune Polyendocrinopathy - Candidiasis - Ectodermal Dystrophy (APECED). Disruption of AIRE results in the development of a range of autoimmune diseases, the most common clinical conditions in the syndrome are hypoparathyroidism, primary adrenocortical failure and chronic mucocutaneous candidiasis.[2]

**Reference**
1. Nagamine, K., Peterson, P., Scott, H. S., Kudoh, J., Minoshima, S., Heino, M., Krohn, K. J. E., Lalioti, M. D., Mullis, P. E., Antonarakis, S. E., Kawasaki, K., Asakawa, S., Ito, F., Shimizu, N. Positional cloning of the APECED gene. Nature Genet. 17: 393-398, 1997.
2. Faiyaz-Ul-Haque, M., Bin-Abbas, B., Al-Abdullatif, A., Abdullah Abalkhail, H., Toulimat, M., Al-Gazlan, S., Almutawa, A. M., Al-Sagheir, A., Peltekova, I., Al-Dayel, F., Zaidi, S. H. E. Novel and recurrent mutations in the AIRE gene of autoimmune polyendocrinopathy syndrome type 1 (APS1) patients. Clin. Genet. 76: 431-440, 2009.


Chongqing Biospes Co., Ltd Tel: +86-23-67567091 Fax: +86-23-67745923
7F, Bldg B, High-tech Venture Park, # 107 Erlang Chuangye Rd, Jiulongpo District, Chongqing, 400039, China
www.biospes.com