Datasheet for ABIN7600745

anti-GATA2 antibody (AA 23-288)

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Overview

Quantity:	100 µg
Target:	GATA2
Binding Specificity:	AA 23-288
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GATA2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-GATA2 Antibody Picoband®
Immunogen:	E.coli-derived human GATA2 recombinant protein (Position: D23-S288).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-GATA2 Antibody Picoband® (ABIN7600745). Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	GATA2
Alternative Name:	GATA2 (GATA2 Products)
Background:	Synonyms: Amiloride-sensitive sodium channel subunit alpha, Alpha-NaCH, Epithelial Na (+) channel subunit alpha, Alpha-ENaC, ENaCA, Nonvoltage-gated sodium channel 1 subunit alpha, SCNEA, SCNN1A, SCNN1 Tissue Specificity: Expressed in the female reproductive tract, from the fimbrial end of the fallopian tube to the endometrium (at protein level) (PubMed:22207244). Expressed in kidney (at protein level). In the respiratory tract, expressed in the bronchial epithelium (at protein level). Highly expressed in lung. Detected at intermediate levels in pancreas and liver, and at low levels in heart and placenta (PubMed:22207244). in skin, expressed in keratinocytes, melanocytes and Merkel cells of the epidermal sub- layers, stratum basale, stratum spinosum and stratum granulosum (at protein level) (PubMed:28130590). Expressed in the outer root sheath of the hair follicles (at protein level) (PubMed:28130590). Detected in both peripheral and central cells of the sebaceous gland (at protein level) (PubMed:28130590). Expressed by eccrine sweat glands (at protein level) (PubMed:28130590). In skin, also expressed by arrector pili muscle cells and intradermal adipocytes (PubMed:28130590). Isoform 1 and isoform 2 predominate in all tissues. Expression of isoform 3, isoform 4 and isoform 5 is very low or not detectable, except in lung and heart (PubMed:9575806). Background: GATA2 (GATA binding protein 2) is a human gene which makes a protein called GATA binding protein 2 - a transcription factor. The GATA family of transcription factors, which contain zinc fingers in their DNA binding domain, have emerged as candidate regulators of gene expression in hematopoietic cells. Ciciotte et al. (1997)mapped the mouse Gata2 gene to chromosome 6 by study of DNA from an interspecific backcross panel. They pointed out that the human gene had been mapped to chromosome 3 by Dorfman et al. (1992) using DNA from a panel of 12 rodent/human hybrids containing various human chromosomes and applying Southern blot analysis. By exon trapping using a PAC contig spanning a breakpoint region associated with myeloid leukemia, Wieser et al. (2000) mapped the GATA2 gene to chromosome 3q21. GATA2 is transcribed from telomere to centromere. GATA2 is expressed in hematopoietic progenitors, including early erythroid cells, mast cells, and megakaryocytes, and also in nonhematopoietic embryonic stem cells.
Molecular Weight:	51 kDa
Gene ID:	2624
UniProt:	P23769
Pathways:	Stem Cell Maintenance

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Ciciotte, S. L., Tsai, F.-Y., Peters, L. L.Gata2 maps to mouse chromosome 6.Mammalian Genome 8: 69-70, 1997. 2. Dorfman, D. M., Wilson, D. B., Bruns, G. A., Orkin, S. H.Human transcription factor GATA-2: evidence for regulation of preproendothelin-1 gene expression in endothelial cells.J. Biol. Chem. 267: 1279-1285, 1992. 3. Wieser, R., Volz, A., Vinatzer, U., Gardiner, K., Jager, U., Mitterbauer, M., Ziegler, A., Fonatsch, C.Transcription factor GATA-2 gene is located near 3q21 breakpoints in myeloid leukemia.Biochem. Biophys. Res. Commun. 273: 239-245, 2000.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.