Datasheet for ABIN7599353

anti-Mesp2 antibody (AA 1-397)

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Overview

Quantity:	100 µg
Target:	Mesp2
Binding Specificity:	AA 1-397
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Mesp2 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-Mesp2 Antibody Picoband®
Immunogen:	E.coli-derived human Mesp2 recombinant protein (Position: M1-Y397).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Mesp2 Antibody Picoband® (ABIN7599353). Tested in ELISA, Flow Cytometry, IF, IHC, 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:	Mesp2
Alternative Name:	MESP2 (Mesp2 Products)
Background:	Synonyms: Forkhead box protein F1, Forkhead-related activator 1, FREAC-1, Forkhead-related protein FKHL5, Forkhead-related transcription factor 1, FOXF1, FKHL5, FREAC1 Tissue Specificity: Expressed in kidney. Background: Mesoderm posterior protein 2 (MESP2), also known as class C basic helix-loop-helix protein 6 (bHLHc6), is a protein that in humans is encoded by the MESP2 gene. This gene encodes a member of the bHLH family of transcription factors and plays a key role in defining the rostrocaudal patterning of somites via interactions with multiple Notch signaling pathways. This gene is expressed in the anterior presomitic mesoderm and is downregulated immediately after the formation of segmented somites. This gene also plays a role in the formation of epithelial somitic mesoderm and cardiac mesoderm. Mutations in the MESP2 gene cause autosomal recessive spondylocostal dystosis 2 (SCD02).
Molecular Weight:	45 kDa
Gene ID:	145873

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human Immunohistochemistry (Paraffin-embedded Section), 2-5 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. Cornier, A. S., Staehling-Hampton, K., Delventhal, K. M., Saga, Y., Caubet, J.-F., Sasaki, N., Ellard, S., Young, E., Ramirez, N., Carlo, S. E., Torres, J., Emans, J. B., Turnpenny, P. D., Pourquie, O. Mutations in the MESP2 gene cause spondylothoracic dysostosis/Jarcho-Levin syndrome. Am. J. Hum. Genet. 82: 1334-1341, 2008. 2. Morimoto, M., Takahashi, Y., Endo, M., Saga, Y. The Mesp2 transcription factor establishes segmental borders by suppressing Notch activity. Nature 435: 354-359, 2005. 3. Saga, Y., Hata, N., Koseki, H., Taketo, M. M. Mesp2: a novel mouse gene expressed in the presegmented mesoderm and essential for segmentation initiation. Genes Dev. 11: 1827-1839, 1997.
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.