

ARG66245 anti-SOX10 antibody [SQab1734]

Package: 100 µl, 50 µl
Store at: -20°C

Summary

| | |
|---------------------|--|
| Product Description | Recombinant Rabbit Monoclonal antibody [SQab1734] recognizes SOX10 |
| Tested Reactivity | Hu |
| Tested Application | FACS, ICC/IF, IHC-P, IP, WB |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone | SQab1734 |
| Isotype | IgG |
| Target Name | SOX10 |
| Species | Human |
| Immunogen | Synthetic peptide around aa. 400-500 of Human SOX10. |
| Conjugation | Un-conjugated |
| Alternate Names | WS4C; PCWH; DOM; Transcription factor SOX-10; WS2E; WS4 |

Application Instructions

| Application table | Application | Dilution |
|-------------------|-------------|------------------|
| | FACS | 1:1000 - 1:2000 |
| | ICC/IF | 1:2000 - 1:10000 |
| | IHC-P | 1:1000 - 1:2000 |
| | IP | 1:50 |
| | WB | 1:1000 - 1:2000 |

Application Note IHC-P: Antigen Retrieval: Boil tissue section in Tris/EDTA buffer (pH 9.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

| | |
|---------------------|--|
| Form | Liquid |
| Purification | Purification with Protein A. |
| Buffer | PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA. |
| Preservative | 0.01% Sodium azide |
| Stabilizer | 40% Glycerol and 0.05% BSA |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw |

cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

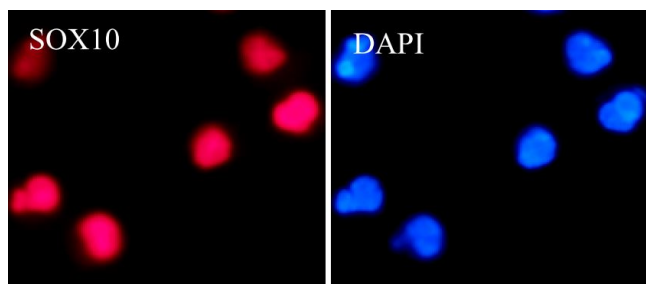
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

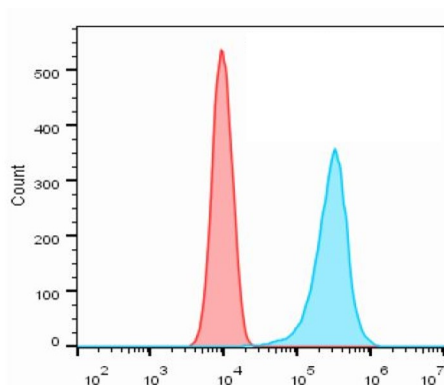
| | |
|----------------|--|
| Gene Symbol | SOX10 |
| Gene Full Name | SRY (sex determining region Y)-box 10 |
| Background | SOX10 is a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The encoded protein may act as a transcriptional activator after forming a protein complex with other proteins. This protein acts as a nucleocytoplasmic shuttle protein and is important for neural crest and peripheral nervous system development. Mutations in this gene are associated with Waardenburg-Shah and Waardenburg-Hirschsprung disease. [provided by RefSeq, Jul 2008] |
| Function | SOX10 is a transcription factor that plays a central role in developing and mature glia. Specifically activates expression of myelin genes, during oligodendrocyte (OL) maturation, such as DUSP15 and MYRF, thereby playing a central role in oligodendrocyte maturation and CNS myelination. Once induced, MYRF cooperates with SOX10 to implement the myelination program. Transcriptional activator of MITF, acting synergistically with PAX3 (PubMed:21965087). [UniProt] |
| Highlight | Related products: SOX10 antibodies ; Anti-Rabbit IgG secondary antibodies ; Related news: Cancer Pathology Markers (SQ clones) |
| Calculated Mw | 50 kDa |

Images



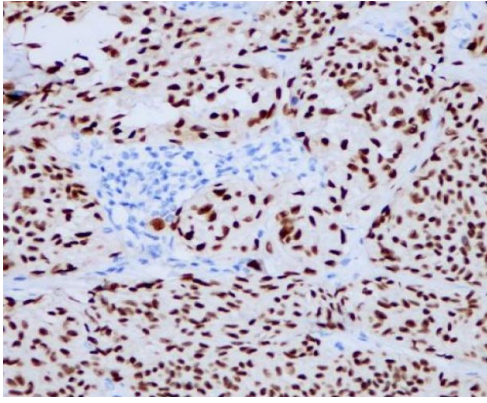
ARG66245 anti-SOX10 antibody [SQab1734] ICC/IF image

Immunofluorescence: A375 cells were fixed with 4% paraformaldehyde for 30 min at RT, permeabilized with 0.1% Triton X-100 for 10 min at RT then blocked with 10% goat serum for 30 min at room temperature. Cells were stained with ARG66245 anti-SOX10 antibody [SQab1734] at 1:10000 and 4°C. DAPI (blue) was used as the nuclear counter stain.



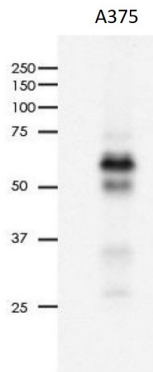
ARG66245 anti-SOX10 antibody [SQab1734] FACS image

Flow Cytometry: A375 cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. Cells were then stained with ARG66245 anti-SOX10 antibody [SQab1734] (blue) at 1:1000 dilution in 1x PBS/1% BSA for 30 min at room temperature, followed by Alexa Fluor® 488 labelled secondary antibody. Unlabelled sample (red) was used as a control.



ARG66245 anti-SOX10 antibody [SQab1734] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human melanoma tissue stained with ARG66245 anti-SOX10 antibody [SQab1734] at 1:100. Antigen Retrieval: Boil tissue section in Tris/EDTA buffer (pH 9.0).



ARG66245 anti-SOX10 antibody [SQab1734] WB image

Western blot: 10 µg of A375 cell lysate stained with ARG66245 anti-SOX10 antibody [SQab1734] at 1:1000 dilution.



ARG66245 anti-SOX10 antibody [SQab1734] IP image

Immunoprecipitation: 0.4 mg of A375 cell lysate immunoprecipitated and stained with ARG66245 anti-SOX10 antibody [SQab1734]. 1) IP in A375 whole cell lysate, 2) Rabbit IgG instead of primary antibody in A375 whole cell lysate, and 3) A375 whole cell lysate, 10 µg (input).