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Anti-KHSRP Antibody Picoband™ (monoclonal, 4F10D2)

Catalog # ABO16575

Specification

Anti-KHSRP Antibody Picoband™ (monoclonal, 4F10D2) - Product Information

Application	**WB, IF, ICC, FC**
Primary Accession	Q92945
Host	**Mouse**
Isotype	**Mouse IgG2b**
Reactivity	**Human**
Clonality	**Monoclonal**
Format	**Lyophilized**

Description
Anti-KHSRP Antibody Picoband™ (monoclonal, 4F10D2) . Tested in Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human.

Reconstitution
Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.

Anti-KHSRP Antibody Picoband™ (monoclonal, 4F10D2) - Additional Information

Gene ID 8570

Other Names
Far upstream element-binding protein 2, FUSE-binding protein 2, KH type-splicing regulatory protein, KSRP, p75, KHSRP, FUBP2

Calculated MW
82 kDa KDa

Application Details
Western blot, 0.25-0.5 µg/ml, Human
 Immunocytochemistry/Immunofluorescence, 5 µg/ml, Human
 Flow Cytometry, 1-3 µg/1x10^6 cells, Human

Contents
Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.

Immunogen
E.coli-derived human KHSRP recombinant protein (Position: D116-R478).

Purification
Immunogen affinity purified.

Storage	**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 freezing and thawing.**

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Anti-KHSRP Antibody Picoband™ (monoclonal, 4F10D2) - Protein Information

Name KHSRP

Synonyms FUBP2

Function
Binds to the dendritic targeting element and may play a role in mRNA trafficking (By similarity). Part of a ternary complex that binds to the downstream control sequence (DCS) of the pre-mRNA. Mediates exon inclusion in transcripts that are subject to tissue- specific alternative splicing. May interact with single-stranded DNA from the far-upstream element (FUSE). May activate gene expression. Also involved in degradation of inherently unstable mRNAs that contain AU-rich elements (AREs) in their 3'-UTR, possibly by recruiting degradation machinery to ARE-containing mRNAs.

Cellular Location
Nucleus. Cytoplasm. Note=A small proportion is also found in the cytoplasm of neuronal cell bodies and dendrites.

Tissue Location
Detected in neural and non-neural cell lines.

Anti-KHSRP Antibody Picoband™ (monoclonal, 4F10D2) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-KHSRP Antibody Picoband™ (monoclonal, 4F10D2) - Images

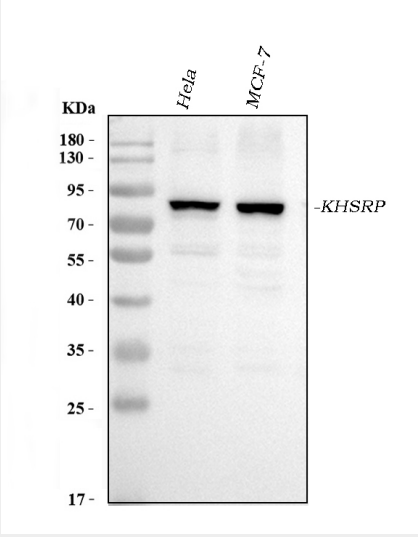

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Figure 1. Western blot analysis of KHSRP using anti-KHSRP antibody (M02770-3).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human MCF-7 whole cell lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-KHSRP antigen affinity purified monoclonal antibody (Catalog # M02770-3) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for KHSRP at approximately 82 kDa. The expected band size for KHSRP is at 73 kDa.

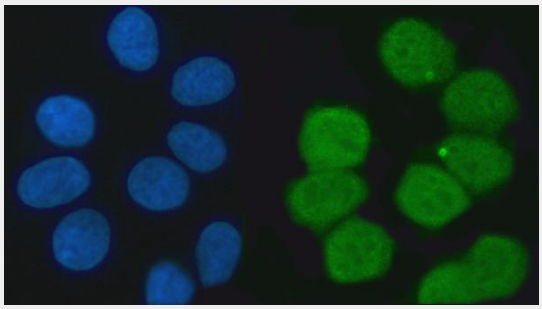

Figure 2. IF analysis of KHSRP using anti-KHSRP antibody (M02770-3).
KHSRP was detected in an immunocytochemical section of MCF-7 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 µg/mL mouse anti-KHSRP Antibody (M02770-3) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

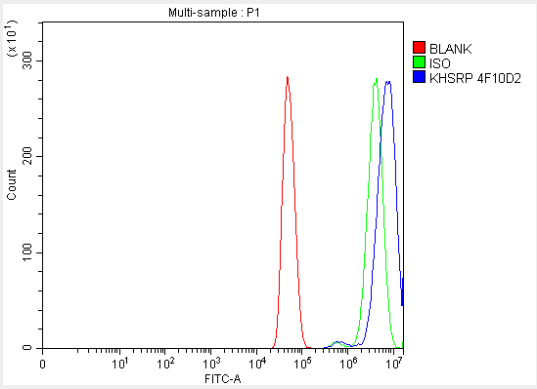

Figure 3. Flow Cytometry analysis of U251 cells using anti-KHSRP antibody (M02770-3).
Overlay histogram showing U251 cells stained with M02770-3 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-KHSRP Antibody (M02770-3, 1 µg/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10 µg/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1 µg/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

Anti-KHSRP Antibody Picoband™ (monoclonal, 4F10D2) - Background

Far upstream element-binding protein 2 is a protein that in humans is encoded by the KHSRP gene. The KHSRP gene encodes a multifunctional RNA-binding protein implicated in a variety of cellular processes, including transcription, alternative pre-mRNA splicing, and mRNA localization.