abcam

Product datasheet

Anti-TLS/FUS antibody [BLR023E] ab243880

KO 評価済 リコンビナント

画像数 8

製品の概要

製品名	Anti-TLS/FUS antibody [BLR023E]
製品の詳細	Rabbit monoclonal [BLR023E] to TLS/FUS
由来種	Rabbit
アプリケーション	**適用あり:** ICC/IF, IHC-P, IP, WB
種交差性	**交差種:** Mouse, Human
免疫原	Synthetic peptide within Human TLS/FUS aa 1-50. The exact sequence is proprietary. Gene ID 2521. Database link: **P35637**
特記事項	This product is sold under License from Bethyl Laboratories, Inc.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.8 Preservative: 0.09% Sodium azide Constituents: 98% Borate buffered saline, 0.1% BSA
特記事項（精製）	Recombinant antibody was purified from cell culture supernatant.
ポリ/モノ	モノクローナル
クローン名	BLR023E
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee	**Abpromise保証は、** 次のテスト済みアプリケーションにおけるab243880の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF		1/100 - 1/500.
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP		Use at an assay dependent concentration. Use 20µl/mg lysate.
WB		1/1000.

ターゲット情報

機能
Binds both single-stranded and double-stranded DNA and promotes ATP-independent annealing of complementary single-stranded DNAs and D-loop formation in superhelical double-stranded DNA. May play a role in maintenance of genomic integrity.

組織特異性
Ubiquitous.

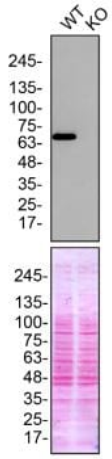
関連疾患
Note=A chromosomal aberration involving FUS is found in a patient with malignant myxoid liposarcoma. Translocation t(12;16)(q13;p11) with DDIT3.
Note=A chromosomal aberration involving FUS is a cause of acute myeloid leukemia (AML). Translocation t(16;21)(p11;q22) with ERG.
Defects in FUS may be a cause of angiomatoid fibrous histiocytoma (AFH) [MIM:612160]. A distinct variant of malignant fibrous histiocytoma that typically occurs in children and adolescents and is manifest by nodular subcutaneous growth. Characteristic microscopic features include lobulated sheets of histiocyte-like cells intimately associated with areas of hemorrhage and cystic pseudovascular spaces, as well as a striking cuffing of inflammatory cells, mimicking a lymph node metastasis. Note=A chromosomal aberration involving FUS is found in a patient with angiomatoid fibrous histiocytoma. Translocation t(12;16)(q13;p11.2) with ATF1 generates a chimeric FUS/ATF1 protein.
Defects in FUS are the cause of amyotrophic lateral sclerosis type 6 (ALS6) [MIM:608030]. ALS6 is a familial form of amyotrophic lateral sclerosis. ALS is a neurodegenerative disorder affecting upper motor neurons in the brain and lower motor neurons in the brain stem and spinal cord, resulting in fatal paralysis. Sensory abnormalities are absent. Death usually occurs within 2 to 5 years. The etiology of amyotrophic lateral sclerosis is likely to be multifactorial, involving both genetic and environmental factors. The disease is inherited in 5-10%.

配列類似性
Belongs to the RRM TET family.
Contains 1 RanBP2-type zinc finger.
Contains 1 RRM (RNA recognition motif) domain.

翻訳後修飾
Arg-216 and Arg-218 are dimethylated, probably to asymmetric dimethylarginine.

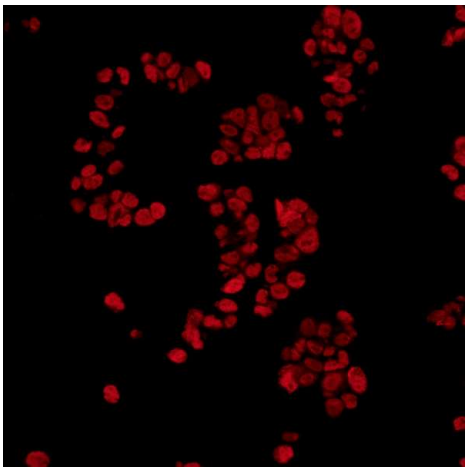
細胞内局在
Nucleus.

画像



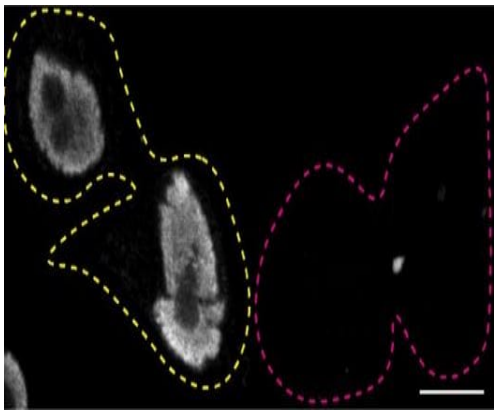
Western blot - Anti-TLS/FUS antibody [BLR023E] (ab243880)

ab243880 was shown to react with FUS in wild-type HeLa cells in Western blot with loss of signal observed in a FUS knockout cell line. Wild-type HeLa and FUS knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 5% milk in TBST for 1 hr before incubation with ab243880 overnight at 4 °C at a 1/1000 dilution. Blots were incubated with secondary antibodies at 1/5000 before imaging. These data were provided by YCharOS Inc., an open science company with the mission of characterizing commercially available antibody reagents for all human proteins. Abcam and YCharOS are working together to help address the reproducibility crisis by enabling the life science community to better evaluate commercially available antibodies.



Immunocytochemistry/ Immunofluorescence - Anti-TLS/FUS antibody [BLR023E] (ab243880)

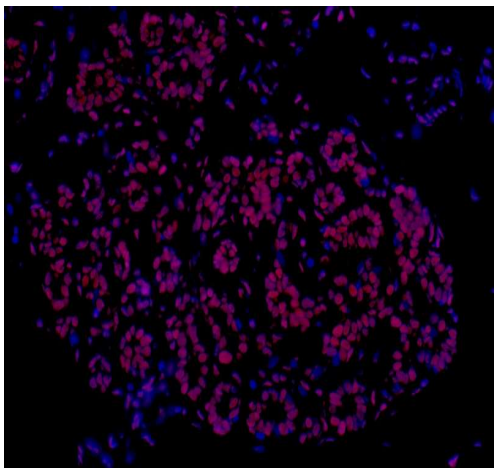
Formaldehyde-fixed HepG2 (human liver hepatocellular carcinoma cell line) cells labeling TLS/FUS using ab243880 at 1/250 dilution in ICC/IF analysis. A DyLight594-conjugated goat anti-rabbit IgG was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-TLS/FUS antibody [BLR023E] (ab243880)

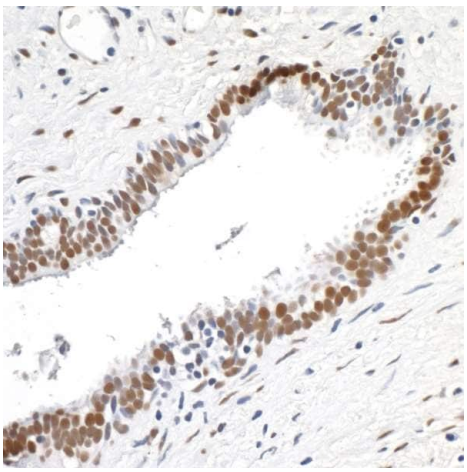
ab243880 was shown to react with FUS in wild-type HeLa cells in Immunocytochemistry with loss of signal observed in a FUS knockout cell line. Wild-type and Knockout cells were mixed and pelleted at a 1:1 ratio on coverslips. The cells were fixed with 4% paraformaldehyde (15 min) then permeabilized with 0.1% Triton X-100 (10min) and then blocked with 5%BSA+5%goat serum (30min). The cells were then incubated with ab243880 at 1/500 dilution overnight at 4°C followed by a further incubation at room temperature for 1h with a goat anti-rabbit secondary antibody to (Alexa Fluor® 555) at 0.5 µg/ml. Acquisition of the green (wild-type), red (antibody staining) and far-red (knockout) channels was performed. Representative grayscale images of the red channel are shown. Wild-type and knockout cells are outlined with yellow and magenta dashed line, respectively. Schematic representation of the mosaic strategy used is shown on the bottom-right panel. Image was acquired with a Zeiss(LSM-880).

These data were provided by YCharOS Inc., an open science company with the mission of characterizing commercially available antibody reagents for all human proteins. Abcam and YCharOS are working together to help address the reproducibility crisis by enabling the life science community to better evaluate commercially available antibodies.



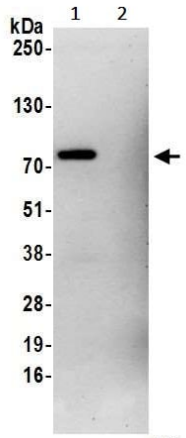
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TLS/FUS antibody [BLR023E] (ab243880)

Formalin-fixed, paraffin-embedded human breast tissue stained for TLS/FUS using ab243880 at 1/250 dilution in immunohistochemical analysis. A DyLight594-conjugated goat anti-rabbit antibody was used as the secondary.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TLS/FUS antibody [BLR023E] (ab243880)

Formalin-fixed, paraffin-embedded human prostate carcinoma tissue stained for TLS/FUS using ab243880 at 1/250 dilution in immunohistochemical analysis. A HRP-conjugated goat anti-rabbit antibody was used as the secondary. DAB staining.

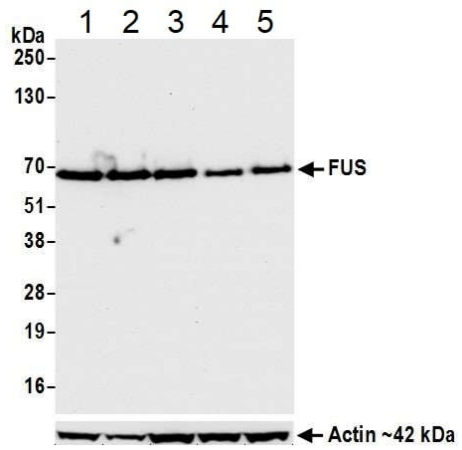


Immunoprecipitation - Anti-TLS/FUS antibody [BLR023E] (ab243880)

TLS/FUS was immunoprecipitated from 1.0 mg HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate with ab243880 at 20 µl per reaction. Western blot was performed on the immunoprecipitate using ab243880 at 1/1000 dilution.
Lane 1: ab243880 IP in HEK-293T whole cell lysate.

Lane 2: Control IgG IP in HEK-293T whole cell lysate.

Detection: Chemiluminescence with an exposure time of 3 minutes.



Western blot - Anti-TLS/FUS antibody [BLR023E] (ab243880)

All lanes : Anti-TLS/FUS antibody [BLR023E] (ab243880) at 1/1000 dilution

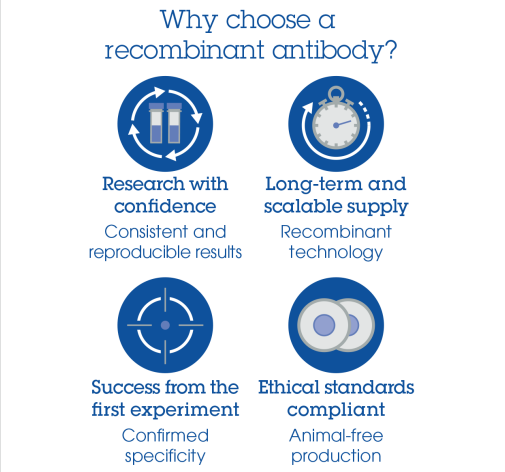
Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate
Lane 2 : HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate
Lane 3 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate
Lane 4 : TCMK-1 (Mouse kidney epithelial cell line) whole cell lysate
Lane 5 : NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate

Lysates/proteins at 50 µg per lane.

Secondary
All lanes : HRP-conjugated goat anti-rabbit IgG antibody

Lower Panel: Rabbit anti-FUS recombinant monoclonal antibody.

Detection: chemiluminescence with an exposure time of 30 seconds



Anti-TLS/FUS antibody [BLR023E] (ab243880)

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