

Datasheet for ABIN1876373

anti-SUN5 antibody[Go to Product page](#)**1** Validation

Overview

Quantity:	100 µL
Target:	SUN5
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Isotype:	IgG
Characteristics:	Expected molecular weight of target: 379 kDa
Purification:	Affinity purification

Target Details

Target:	SUN5
Alternative Name:	SPAG4L (SUN5 Products)
Gene ID:	140732
UniProt:	Q8TC36

Application Details

Application Notes:	WB 1:500-1:2000
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Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.4

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: -20 °C

Storage Comment: Store at -20°C.



Successfully validated (Immunocytochemistry (ICC))

by [Johann-Friedrich-Blumenbach-Institute for Zoology and Anthropology, Department of Developmental Biology, Georg-August-University Göttingen](#)

Report Number: 102344

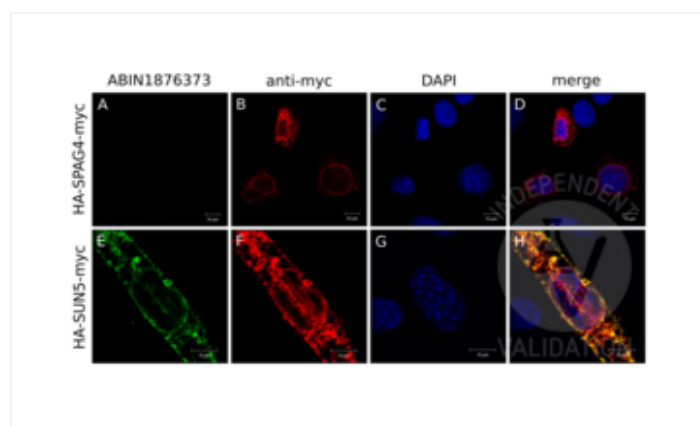
Date: Dec 19 2017

Target:	SUN5
Method validated:	Immunocytochemistry (ICC)
Positive Control:	NIH/3T3 mouse embryonic fibroblast cells overexpressing HA- and myc-tagged SPAG4L-2/SUN5
Negative Control:	NIH/3T3 mouse embryonic fibroblast cells overexpressing HA- and myc-tagged SPAG4
Notes:	Passed. ABIN1876373 is specific for SPAG4L-2/SUN5 and did not detect SPAG4 when ectopically expressed. Unspecific binding to other cellular proteins is nearly absent.
Primary Antibody:	ABIN1876373
Secondary Antibody:	goat anti-rabbit IgG DyLight488 (Thermo Scientific, 35553, lot KA130088)
Protocol:	<ul style="list-style-type: none"> • NIH/3T3 cells (ATCC, CRL-1658) are grown in DMEM+GlutaMAX (Gibco, 31966-021, Lot 1852045) supplemented with fetal bovine serum (Gibco 270-106) and Pen/Strep (Gibco 15140), at 37°C and 5% CO₂ to 70% confluency. • Transfect cells with HA/myc-tagged SPAG4 expression plasmid or HA/myc-tagged SPAG4L-2/SUN5 (Frohnert et al., 2011) expression plasmid using EndofectinMax (GeneCopoeia) following the manufacturer's instructions. • Grow cells for 24h. • Fix cells in 3.7% paraformaldehyde (in PBS) for 15min at 4°C followed by incubation in 0.3% Triton X-100 for 10min at 4°C. • Block cells in PBS containing 1% bovine serum albumin and 0.5% Tween-20 (PBT) for 1h at room temperature. • Incubate cells with primary <ul style="list-style-type: none"> ◦ rabbit anti-SUN5 antibody (antibodies-online, ABIN1876373) diluted 1:100 in PBS ON at 4° and ◦ mouse anti-myc tag antibody clone (9E10) diluted 1:100 in PBS ON at 4°C. • Wash cells with TBST (50mM Tris-HCl, pH 7.4, 150mM NaCl, 0.1% Tween 20) for 15min at RT. • Incubate cells with secondary <ul style="list-style-type: none"> ◦ goat anti-rabbit IgG DyLight488 (Thermo Scientific, 35553, lot KA130088) diluted 1:1000 in PBS for 1h at 37°C and ◦ goat anti-mouse IgG (H+L) Alexa Fluor 555 (Invitrogen, A21422, lot 948498) diluted 1:1000

in PBS for 1h at 37°C.

- Counterstain DNA with DAPI (4,6-Diamidino-2-phenylindole; Sigma D-9542).
- Image acquisition on Zeiss LSM 510 confocal microscope and processing using Adobe Photoshop 5.0.

Image for Validation report #102344



Validation image no. 1 for anti-Sad1 and UNC84 Domain Containing 5 (SUN5) antibody (ABIN1876373)

Specificity of ABIN1876373. Cells were transfected either with SPAG4 (upper row) or SPAG4L-2/SUN5 (lower row), both tagged with HA and myc. Anti-myc antibody (B, F; red) detected both proteins, but ABIN1876373 (A, E; green) exclusively detected SPAG4L-2/SUN5 without any cross-reaction to SPAG4. The antibody detected SPAG4L-2/SUN5 at the nuclear membrane, as expected. The pictures on the right (D, H) show the red and green channels merged with DAPI counterstain (blue).