antibodies

Datasheet for ABIN5542492 anti-TLR9 antibody (AA 868-1016)

2 Validations

Images



Overview

Quantity:	0.1 mg
Target:	TLR9
Binding Specificity:	AA 868-1016
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TLR9 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Immunogen:	Purified recombinant fragment of human TLR9 (AA: 868-1016) expressed in E. coli.
Clone:	1B12H2
Isotype:	lgG2a
Purification:	purified

Target Details

Target:	TLR9
Alternative Name:	TLR9 (TLR9 Products)
Background:	Description: The protein encoded by this gene is a member of the Toll-like receptor (TLR) family

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	which plays a fundamental role in pathogen recognition and activation of innate immunity.
	TLRs are highly conserved from Drosophila to humans and share structural and functional
	similarities. They recognize pathogen-associated molecular patterns (PAMPs) that are
	expressed on infectious agents, and mediate the production of cytokines necessary for the
	development of effective immunity. The various TLRs exhibit different patterns of expression.
	This gene is preferentially expressed in immune cell rich tissues, such as spleen, lymph node,
	bone marrow and peripheral blood leukocytes. Studies in mice and human indicate that this
	receptor mediates cellular response to unmethylated CpG dinucleotides in bacterial DNA to
	mount an innate immune response.,
	Aliases: CD289
Molecular Weight:	115.8 kDa
Gene ID:	54106
HGNC:	54106
Pathways:	TLR Signaling, Activation of Innate immune Response, Cellular Response to Molecule of
	Bacterial Origin, Toll-Like Receptors Cascades

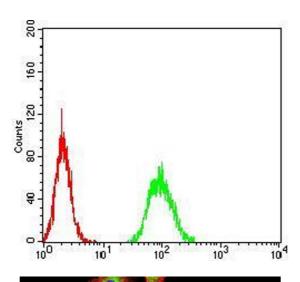
Application Details

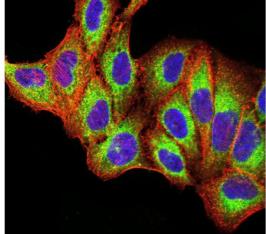
Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, ICC: 1:200 - 1:1000, FCM: 1:200 - 1:400
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified antibody in PBS with 0.05 % 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:	4°C, -20°C for long term storage

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Flow Cytometry

Image 1. Flow cytometric analysis of A549 cells using TLR9 mouse mAb (green) and negative control (red).

Immunocytochemistry

Image 2. Immunofluorescence analysis of SK-OV-3 cells using TLR9 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher

Immunohistochemistry

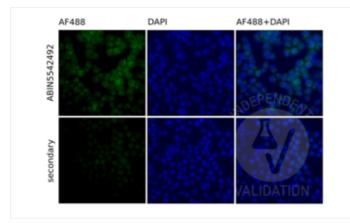
Image 3. Immunohistochemical analysis of paraffinembedded ovarian cancer tissues using TLR9 mouse mAb with DAB staining.

Please check the product details page for more images. Overall 7 images are available for ABIN5542492.

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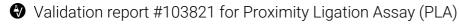
NDEPENDEN	Successfully validated (Immunofluorescence (IF))
	by Klinik für Anästhesie, Intensivmedizin und Schmerztherapie, Universitätsklinikum der Ruhr
	Universität Bochum
VALUDATION	Report Number: 103693
CUSTOMER VALIDATION	Date: Mar 26 2019
N° DATE 103693 26/03/19	
Target:	TLR9
Lot Number:	160127
Method validated:	Immunofluorescence (IF)
Positive Control:	U937 monocytic cells
Negative Control:	No primary antibody control
Notes:	Passed. ABIN5542492 localization on ER is visible. Negative control without primary antibody
	shows no signal.
Primary Antibody:	ABIN5542492
Secondary Antibody:	AF488-conjugated AffiniPure alpaca anti-Mouse IgG antibody (Jackson ImmunoResearch, 615-
	545-214)
Protocol:	Grow U937 cells in RPMI (Gibco, 21875-034) supplemented with 10% FCS (Gibco, A3840001)
	and Pen/Strep(Gibco, 15140-122), at 37°C and 5% CO_2 in 500µL in 12-well plates.
	Use cytospin to spin cells onto slide.
	Fix cells on coverslide in 4% PFA for 20min at RT.
	Wash cells 3x for 5min with PBS.
	• Permeabilize cells in PBS containing 0.1% Triton for 5min at RT.
	Block non-specific binding with Duolink PLA Blocking Solution (Sigma) for 30 min at RT.
	Incubate cells with primary mouse anti-TLR9 antibody (antibodies-online, ABIN5542492, lot
	160127) diluted 1:200 in staining solution ON at 4°C.
	Wash cells 3x for 5min with PBS.
	Incubate cells with secondary AF488-conjugated AffiniPure alpaca anti-Mouse IgG antibody
	(Jackson ImmunoResearch, 615-545-214) diluted 1:400 in staining solution for 1h at RT.
	Wash cells 2x for 5min with PBS.
	Mount coverslips on glass slides in ProLong Gold antifade reagent (Invitrogen,
	P36935,1890418) containing DAPI.
	Image acquisition with an Olympus widefield microscope.
Experimental Notes:	TLR9 staining using ABIN5542492 shows typical localization peri-nuclear localization.



Validation image no. 1 for anti-Toll-Like Receptor 9 (TLR9) (AA 868-1016) antibody (ABIN5542492)

U937 monocytic cells stained with with ABIN5542492 (top row). TLR9 staining (AF488, green) shows typical perinuclear localization (ER). Counterstain with DAPI (blue). Negative control without primary antibody (bottom row) shows no significant staining. Counterstain with DAPI (blue).

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NDEPENDEN	Successfully validated (Proximity Ligation Assay (PLA))	
Л	by Klinik für Anästhesie, Intensivmedizin und Schmerztherapie, Universitätsklinikum der Ruhr	
	Universität Bochum	
VALUDATION	Report Number: 103821	
CUSTOMER VALIDATION	Date: Apr 29 2019	
DATE 103821 29/04/19		
Target:	TLR9	
Lot Number:	160127	
Method validated:	Proximity Ligation Assay (PLA)	
Positive Control:	U937 monocytic cells stimulated with ODN1826	
Negative Control:	Anti TLR9 antibody (ABIN5542492) alone	
	Anti pY antibody (ABIN361758) alone	
Notes:	Passed. PLA signal visible in stimulated cells. Negative control with only one primary antibody	
	shows no signal.	
Primary Antibody:	ABIN5542492	
Secondary Antibody:	ABIN361758	
Protocol:	Grow U937 cells in RPMI (Gibco, 21875-034) supplemented with 10% FCS (Gibco, A3840001	
	and Pen/Strep(Gibco, 15140-122), at 37°C and 5% CO ₂ in 500µL in 12-well plates.	
	 Incubate the cells with 1µM ODN1826 for 4h. 	
	Use cytospin to spin cells onto slide.	
	Fix cells on coverslide in 4% PFA for 20min at RT.	
	Wash cells 3x for 5min with PBS. Dermoshilize cells in DBS containing 0.1% Triter for 5min at DT	
	 Permeabilize cells in PBS containing 0.1% Triton for 5min at RT. Block non-specific binding with Duolink PLA Blocking Solution (Sigma-Aldrich) for 30min at 	
	RT.	
	Incubate cells with primary mouse anti-TLR9 antibody (antibodies-online, ABIN5542492, lot	
	160127) diluted 1:200 and primary rabbit anti-pY antibody (antibodies-online, ABIN361758,	
	lot 1508290) diluted 1:100 ON at 4°C.	
	• Wash cells 3x for 5min with PBS.	
	Incubate cells with Duolink In Situ PLA Probe anti-Rabbit MINUS (Sigma-Aldrich, DUO92005,	
	lot SLBZ4516) and Duolink In Situ PLA Probe anti-Mouse mouse PLUS (Sigma-Aldrich,	
	DU092001, lot SLBZ8369) proximity probes according to manufacturers recommendations	
	Wash cells 2x for 5min with PBS.	
	Perform Ligation step according to the Duolink PLA kit (Sigma).	
	 Perform Amplification step according to the Duolink In Situ PIA Detection Kit Green (Sigma- Aldrich, DU092014). 	

Mount coverslips on glass slides in ProLong Gold antifade reagent (Invitrogen, P36935, lot 1890418) containing DAPI.
Image acquisition with an Olympus widefield microscope.

Experimental Notes: We used double the amount the Phi29 polymerase for the amplifaction step than recommended.

Image for Validation report #103821



Validation image no. 1 for anti-Toll-Like Receptor 9 (TLR9) (AA 868-1016) antibody (ABIN5542492)

Negative controls of U937 cells without either ABIN5542492 or ABIN361758 show no signal. In U937 cells incubated simulatnously with ABIN5542492 and ABIN361758 the PLA signal (green) is clearly visible. Counterstain with DAPI (blue).

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