Datasheet for ABIN479062

anti-Lipopolysaccharides (LPS) antibody

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Overview

Quantity:	1 mL
Target:	Lipopolysaccharides (LPS)
Reactivity:	Gram Negative Bacteria
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This Lipopolysaccharides (LPS) antibody is un-conjugated
Application:	Immunofluorescence (IF)

Product Details

Immunogen:	Whole cell prep of Lipid A from E. coli O157. Type of Immunogen: Cells
Isotype:	IgG
Specificity:	Recognizes LPS. Cross-reactive with numerous members of the Enterobacteriaciae: Pseudomonas aeruginosa, Klebsiella pneumoniae, E. coli O157, Salmonella enteriditis, Enterobacter aerogenes, E. hermanii, Yersinia enterocolitica and Shigella sonnei.
Purification:	Ion exchange chromatography

Target Details

Target:	Lipopolysaccharides (LPS)
Alternative Name:	Lipopolysaccharide / LPS (Lipopolysaccharides (LPS) Products)

Target Details

Target Type:	Chemical
Background:	Name/Gene ID: LPS Synonyms: LPS

Application Details

Application Notes:	Approved: IF Usage: Suitable for use in Immunofluorescence. Tested with whole organisms in IF.
Comment:	Target Species of Antibody: Gram Negative Bacteria
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	PBS, pH 7.2, 0.09 % sodium azide. No stabilizing proteins added.
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 freeze thaw cycles. Store undiluted.
Storage:	4 °C,-20 °C
Storage Comment:	Short term 4°C, long term aliquot and store at -20°C, avoid freeze-thaw cycles. Store undiluted.

Publications

Product cited in:	Marconato, Tiraboschi, Aralla, Sabattini, Melacarne, Agnoli, Balboni, Salvi, Foglia, Punzi, Romagnoli, Rescigno: "A Phase 2, Single-Arm, Open-Label Clinical Trial on Adjuvant Peptide-Based Vaccination in Dogs with Aggressive Hemangiosarcoma Undergoing Surgery and Chemotherapy." in: **Cancers**, Vol. 15, Issue 17, (2023) (PubMed). Marconato, Melacarne, Aralla, Sabattini, Tiraboschi, Ferrari, Zeira, Balboni, Faroni, Guerra, Pisoni, Ghezzi, Pettinari, Rescigno: "A Target Animal Effectiveness Study on Adjuvant Peptide-Based

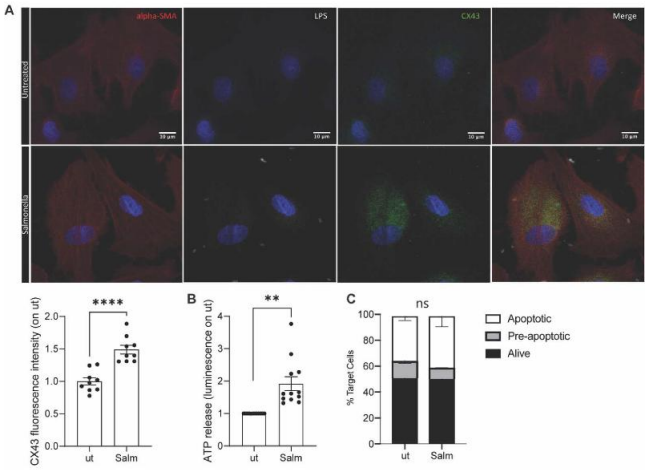
Publications

Vaccination in Dogs with Non-Metastatic Appendicular Osteosarcoma Undergoing Amputation and Chemotherapy." in: **Cancers**, Vol. 14, Issue 5, (2022) (PubMed).

Stromberg, Stromberg, Banisadr, Graves, Moxley, Mukundan: "Purification and characterization of lipopolysaccharides from six strains of non-O157 Shiga toxin-producing Escherichia coli." in: **Journal of microbiological methods**, Vol. 116, pp. 1-7, (2015) (PubMed).

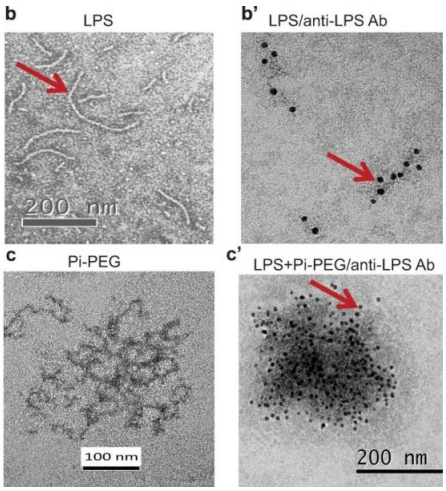
Zaborin, Defazio, Kade, Kaiser, Belogortseva, Camp, Smith, Adkins, Kim, Alverdy, Goldfeld, Firestone, Collier, Jabri, Tirrell, Zaborina, Alverdy: "Phosphate-containing polyethylene glycol polymers prevent lethal sepsis by multidrug-resistant pathogens." in: **Antimicrobial agents and chemotherapy**, Vol. 58, Issue 2, pp. 966-77, (2014) (PubMed).

Images



Immunofluorescence

Image 1. Vaccine quality control. OSA primary tumor cells were infected with Salmonella or left untreated. (A). 4 h after infection, cells were fixed for immunofluorescence (IF) analysis. Cell structure was marked with alpha-SMA antibody (red), Salmonella with LPS-specific antibody (white), and hemichannels with Cx43 antibody (green). (B). ATP accumulated in cells supernatant was measured after infection. (n = 12) (C). Frequency of Annexin-PI- (live), Annexin+PI- (early apoptotic), and Annexin+PI+(apoptotic) tumor cells Salmonella-infected (Salm) or untreated (ut) (n = 2). Data are represented as mean ± SEM using a scatter dot plot. Statistical analysis was evaluated using two-sided Mann–Whitney test ** $p < 0.01$, **** $p < 0.0001$. scale bar: 10 µm and magnification: 63×. Source: PMID35267655



Immunoelectron Microscopy

Image 2. immunoelectron microscopy (IEM) images of LPS using ABIN479062. Source: 10.1128/AAC.02183-13

