



TLR and inflammasome



Hycult[®]Biotech

bringing innate immunity to the **next level**

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TLR and Inflammasome

Hycult Biotech is a leading world-class manufacturer of research reagents in the field of innate immunity. We are a specialized partner in the development and manufacturing of assays, antibodies, proteins and peptides. With the focus on innate immunity, we pay special attention to products relating to antimicrobial peptides, complement, acute phase proteins, TLR, LPS and microbial toxins.

Toll like receptors (TLRs) are a class of non-catalytic receptors that function as pattern recognition receptors (PRRs). These receptors recognize pathogen-associated molecular patterns (PAMPs) that are shared by large groups of microorganisms, but also endogenous alarm signals, like apoptosis related membrane fragments and inflammatory ligands. Common cytoplasmic domains allow TLRs to use the same signaling molecules used by the interleukin-1 receptors (IL-1Rs), including MyD88 and TRIF. In man both intracellular and extracellular TLR exist. The intracellularly located TLR9 confers responses to bacterial DNA via species-specific CpG-motif recognition. Therefore, CpG-DNA can be used to investigate TLR9 response in various systems.

Validated ELISA kit sample types:

BM: Breast milk	CS: Cell culture supernatant
P: Plasma	U: Urine

ELISA kits

Product name	Species	Sample types	Cat. #
sCD14	Human	BM CS P U	HK320
sMR	Human	P	HK381

Validated antibody applications:

F: Frozen sections	FC: Flow cytometry
FS: Functional studies	IA: Immunoassay
IF: Immunofluorescence	IP: Immunoprecipitation
P: Paraffin sections	W: Western blot

Can't find the sample type you want for an ELISA kit?

Ask the support team to assist you with your research needs on support@hycultbiotech.com!

Want a conjugated antibody?

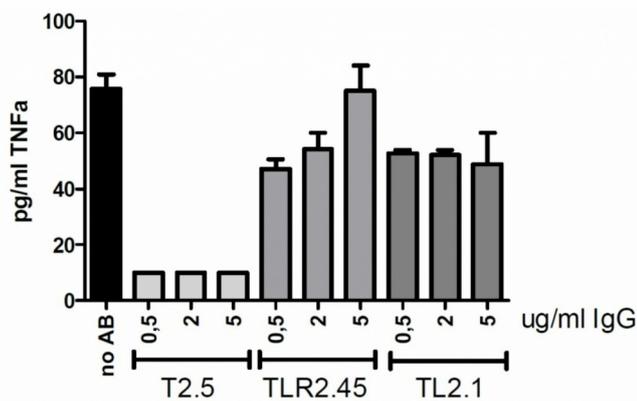
Please visit our website to find all available formats or contact us!

Antibodies

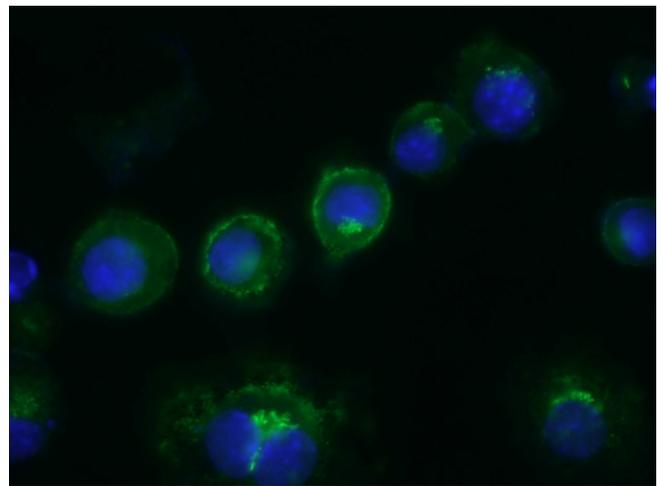
Product name	Clone	Species	Applications	Cat. #
Caspase-3	pAb	Human	IA IF W	HP9060
Caspase-8	pAb	Human	IA W	HP9061
Caspase-9	3-20	Human	IP W	HM2342
CD14	18D11	Human	FC FS IA	HM2224
CD14	Sa14-2	Mouse	FC FS IF IP W	HM1060
CD180	MHR73	Human	F FC FS IP P	HM2083
CD180	RP/14	Mouse	FC FS	HM1031
Histone H3	1G1	Human	IF IP W	HM2344
Mannose receptor	15-2	Human	F FC FS W	HM2056
Mannose receptor	MR5D3	Mouse	F FC FS IA IF IP W	HM1049
MD-1	MD113	Mouse	FC FS IF	HM1040
MD-2	18H10	Human	FC FS	HM2245
NF-kB p65	14H2	Human	F IP P W	HM2345
NOD1	2A10	Human	F IF IP W	HM2290
NOD2	hNOD2.017	Human	F IA IP P W	HM2291
sMD-2/TLR4	4H1	Human	FC FS IA IF W	HM2243

Antibodies

Product name	Clone	Species	Applications	Cat. #
TLR1	GD2.F4	Human	F FC FS IA IF P	HM2085
TLR2	T2.5	Human/Mouse	F FC FS IA IF IP	HM1054
TLR2	TL2.1	Human	F FC FS IF IP P W	HM2064
TLR2	TL2.3	Human	F FC FS IA IF W	HM2066
TLR2	TLR2.45	Human	FC FS IF IP	HM2220
TLR2	6C2	Mouse	FC IF IP	HM1047
TLR2	mT2.4	Mouse	F FC FS IA P	HM1092
TLR2	mT2.7	Mouse	F FC IA IP P	HM1058
TLR2	pAb	Mouse	FC W	HP8016
TLR3	TLR3.7	Human	F FC FS IF IP P	HM2096
TLR4	3C3	Human	FC FS	HM2247
TLR4	4D9	Human	FC IA IP W	HM2298
TLR4	HTA125	Human	FC FS IA IF IP W	HM2068
TLR4/MD-2	7E3	Human	FC FS	HM2246
TLR4/MD-2	MTS510	Mouse	F FC FS IF IP	HM1029
TLR5	19D759.2	Human	F FC P W	HM2159
TLR6	TLR6.127	Human	FC FS IF IP P	HM2221
TLR7	pAb	Human	F FC IF IP P W	HP9040
TLR8	44C143	Human	FC P W	HM2160
TLR9	5G5	Human	F FC IF P W	HM2087
TLR9	5G5	Mouse	F FC IA P W	HM1042
TLR10	3C10C5	Human	FC IA	HM2302



Effect of TLR2 antibodies on TNF-production in a whole human blood model after stimulation with PAM3CSK4 (Cat. # HC4068)



CD14 in RAW 264.7 cells. Immunofluorescence with clone Sa14-2 (Cat. # HM1060)

TLR ligands			
Product name	Species / strain	Quantity	Cat. #
CpG DNA	Mouse	200 nmol	HC4033
CpG-A DNA (ODN 2216)	Human / Mouse	200 nmol	HC4037
CpG-B DNA	Rabbit	200 nmol	HC4038
CpG-B DNA	Rat	200 nmol	HC4040
CpG-B DNA (ODN 2006)	Human / Mouse	200 nmol	HC4039
CpG-C DNA (ODN 2395)	Human / Mouse	200 nmol	HC4041
Lipid A, R515 (Re)	E.coli	1 mg	HC4049
Lipid A, R595 (Re)	Salmonella minnesota	1 mg	HC4057
LPS, EH100 (Ra)	E.coli	1 mg	HC4046
LPS, J5 (Rc)	E.coli	1 mg	HC4047
LPS, O8:K27	E.coli	1 mg	HC4065
LPS, O55:B5	E.coli	1 mg	HC4045
LPS, R5 (Rc)	Salmonella minnesota	1 mg	HC4054
LPS, R7 (Rd)	Salmonella minnesota	1 mg	HC4055
LPS, R60 (Ra)	Salmonella minnesota	1 mg	HC4052
LPS, R345 (Rb)	Salmonella minnesota	1 mg	HC4053
LPS, R515 (Re)	E.coli	1 mg	HC4048
LPS, R595 (Re)	Salmonella minnesota	1 mg	HC4056
LPS, S-form	Salmonella abortus equi	1 mg	HC4061
LPS, S-form	Salmonella enteritidis	1 mg	HC4059
LPS, S-form	Salmonella minnesota	1 mg	HC4051
LPS, S-form	Salmonella typhimurium	1 mg	HC4060
MPL-A, R515 (Re)	E.coli	0.5 mg	HC4050
MPL-A, R595 (Re)	Salmonella minnesota	0.5 mg	HC4058
Non CpG-DNA	Human / Mouse	200 nmol	HC4034
Non CpG-DNA	Rabbit	200 nmol	HC4042
RNA:DNA Hybrid	N/A	5 or 25 nmol	HC4072
TLR2/TLR1 ligand	N/A	50 µg	HC4068
TLR2/TLR1 ligand control	N/A	50 µg	HC4069
TLR2/TLR6 ligand	N/A	50 µg	HC4070
TLR2/TLR6 ligand control	N/A	50 µg	HC4071
TLR3/MDA5 agonist	(POLY[I:C])	5 mg	HC4067
TLR4 agonist set: 4x LPS	E.coli	2x 0.5 mg and 2x 0.25 mg	HC4064
TLR4 agonist set: 4x LPS	Salmonella minnesota	2x 0.5 mg and 2x 0.25 mg	HC4063
TLR9 antagonist (A151)	Human	250 µg and 1 mg	HC4076
TLR9 antagonist (ODN 2088)	Mouse	250 µg and 1 mg	HC4074
TLR9 antagonist control	Human	250 µg and 1 mg	HC4077
TLR9 antagonist control	Mouse	250 µg and 1 mg	HC4075

Need a custom formulation?

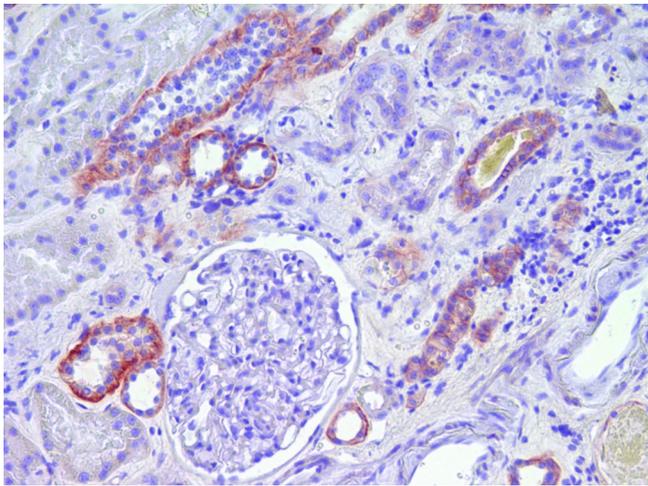
Ask us and we will advise you on the possibilities!

Product in bulk quantity?

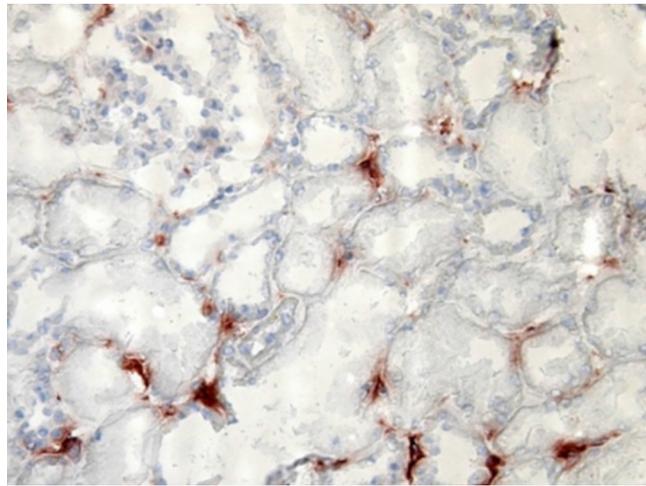
Contact us for a customized quotation!

Want to try different antibodies?

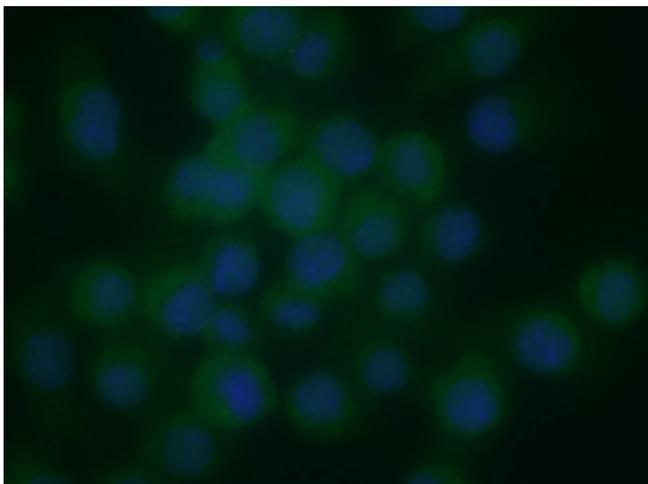
Use the sampler pack (Cat. # HM8999) to find the best antibody for your specific setup!



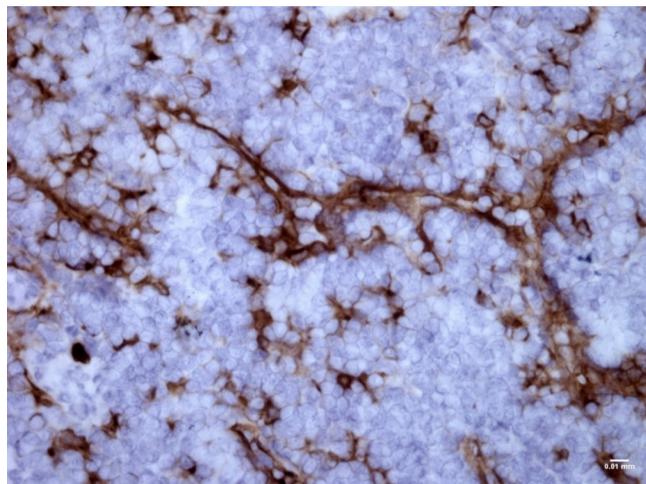
NOD-1 in human kidney. Staining of paraffin section with clone 2A10 (Cat. # HM2290)



TLR2 in human kidney. Staining of frozen section with clone TL2.1 (Cat. # HM2064)



TLR2 in RAW cells. Immunofluorescence with clone 6C2 (Cat. # HM1047)



Mannose receptor in mouse tonsil. Staining of frozen section with clone 15-2 (Cat. # HM2056)



What we stand for

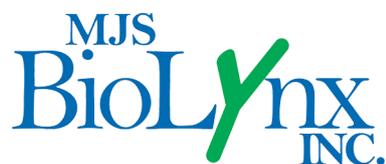
- Original manufacturer
- > 20 years experience
- Support within one working day
- Innate immunity focus
- Reliable and robust
- Scientific drive

Hycult Biotech, bringing innate immunity to the **next level**



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