

Gold-standard dependent KO/KD Validation, Easier article acceptance in High IF Journals



KO/KD Validated ELISA Kits

Advantages

High Specificity

KO/KD gene editing ensures antibodies only recognize target proteins. 100% specificity guaranteed.

False-positive Free

Effectively remove non-specific binding. Detection signal is found from target proteins.

Journal Approval

Assay data approved by leading journals (e.g. Nature, Cell etc.). Obviously improved data reliability.

Cost Savings

Reduce repeated assays induced by unreliable results. Effectively save long-term research cost.

Product Comparison



FineTest KO/KD validated ELISA Kits



Common ELISA Kits

Item
Antibody validation method
Guaranteed specificity
Risk of false positive
Data reliability
Repeated assay cost
Assay cycle



Validated by KO/KD gene editing.



Approved genetic level, 100% target protein derived signal.



Very low(Not detected in KO samples).



Approved by journals, without additional approval.



Low(One assay for article publication).



50% above reduced.



No validation/only validated by protein purification.

Possible cross-reaction and non-specific binding.

Higher(Removal by additional experiments).

Supplement validated experiments. Publication risk.

High(Repeated assays increase time and reagent cost.).

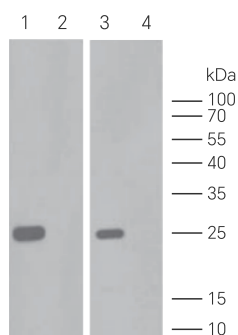
Common cycle.

KO/KD Validation—TNF- α ELISA Kit (Cat. No.:EH0302)

ELISA Validation of KO Samples

Wild THP-1 cells were treated with 80 nM TPA and cultured overnight, and then stimulated with 200 ng/mL LPS for 6 hours. The cell culture supernatant was taken for detection.	1/10 dilution	1.5ng/mL
KO THP-1 cells were treated with 80 nM TPA and cultured overnight, and then stimulated with 200 ng/mL LPS for 6 hours. The cell culture supernatant was taken for detection.	1/2 dilution	ND
KO THP-1 cells were treated with 80 nM TPA and cultured overnight. Then they were stimulated with 200 ng/mL LPS for 6 hours. After that, 300 ng/mL Brefeldin A (BFA) was added and cultured for 3 hours. The cell lysate was collected (Cat. No.: E050), and the total protein concentration of 0.92 mg/mL was detected by BCA.	1/2 dilution	ND

KO Validation for Western Blot(THP-1 cell knockout by TNF- α)



(1,3)Wild and (2,4) KO THP-1 cell treated by TPA/LPS/BFA.
Lysis buffer: 1.55 mg/mL. Sample loading: 10 μ g.

Lane 1/2 uses primary capture antibody. Lane 3/4 uses primary detection antibody(1 μ g/mL respectively). Secondary antibody: 1:5000. Target: 26kDa.

Cat. No.	Product Name	Sensitivity	Range	Citations
ER1393	Rat TNF- α ELISA Kit	2.344pg/mL	3.906-250pg/mL	213
EM0183	Mouse TNF- α ELISA Kit	2.344pg/mL	3.906-250pg/mL	202
ER0042	Rat IL-6 ELISA Kit	37.5pg/mL	62.5-4000pg/mL	182
EH0302	Human TNF- α ELISA Kit	9.375pg/mL	15.625-1000pg/mL	144
EH0201	Human IL-6 ELISA Kit	2.813pg/mL	4.688-300pg/mL	174
EM0121	Mouse IL-6 ELISA Kit	9.375pg/mL	15.625-1000pg/mL	157
EH0185	Human IL-1 β ELISA Kit	2.344pg/mL	3.906-250pg/mL	99
EH0173	Human IL-10 ELISA Kit	4.688pg/mL	7.813-500pg/mL	80
EH0287	Human TGF- β 1 ELISA Kit	18.75pg/mL	31.25-2000pg/mL	60
EH0164	Human IFN- γ ELISA Kit	9.375pg/mL	15.625-1000pg/mL	40
EH0205	Human IL-8 ELISA Kit	4.688pg/mL	7.813-500pg/mL	40
EH3267	Human IL-17A ELISA Kit	18.75pg/mL	31.25-2000pg/mL	32
EH0011	Human IL-18 ELISA Kit	9.375pg/mL	15.625-1000pg/mL	20
EH0199	Human IL-4 ELISA Kit	18.75pg/mL	31.25-2000pg/mL	18
EH0189	Human IL-2 ELISA Kit	9.375pg/mL	15.625-1000pg/mL	14
EH0176	Human IL-12 ELISA Kit	9.375pg/mL	15.625-1000pg/mL	10
EH0184	Human IL-1 α ELISA Kit	2.344pg/mL	3.906-250pg/mL	9



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