



# ELISA and RIA Kits

## Neuroscience: Neuropeptide & Neurodegenerative ELISAs

Get a complete picture of the complexities associated with normal and diseases states of the nervous system with reliable quantification of biomarkers. Trust our neuropeptide and neurodegenerative ELISAs to precisely quantify soluble biomarkers in sera and lysates.

### Neuroscience

Description	Species	Standard Curve Range	Sensitivity	Sample Volume	Cat. No.
α-Synuclein	Human, Mouse, Rat	3–60 ng/mL	3 ng/mL	100 µL	NS400
Amyloid beta 1-40	Human	16–500 pg/mL	4 pg/mL	50 µL	EZHS40
Amyloid beta 1-42	Human	16–500 pg/mL	5 pg/mL	50 µL	EZHS42
Amyloid beta, Set	Human	Contains 1 each of EZHS40 and EZHS42			EZHS-SET
Amyloid beta (Brain) 1-40	Human	16–500 pg/mL	4 pg/mL	50 µL	EZBRAIN40
Amyloid beta (Brain) 1-42	Human	16–500 pg/mL	5 pg/mL	50 µL	EZBRAIN42
Amyloid beta (Brain), Set	Human	Contains 1 each of EZBRAIN40 and EZBRAIN42			EZBRAIN-SET
BDNF (Brain-Derived Neurotrophic Factor)	Human, Rat	7.8–500 pg/mL	7.8 pg/mL	50 µL	CYT306
GFAP (Glial Fibrillary Acidic Protein)	Human, Mouse, Rat	1.5–100 ng/mL	1.5 ng/mL	100 µL	NS830
NGF (Nerve Growth Factor)	Mouse, Rat	10–1000 pg/mL	10–15 pg/mL	50 µL	CYT304
NPY (Neuropeptide Y)	Human	5–1000 pg/mL	2 pg/mL	50 µL	EZHNPY-25K
NPY (Neuropeptide Y)	Mouse, Rat	0.01–2 ng/mL	0.004 ng/mL	20 µL	EZRMNPY-27K
PEDF (Pigment Epithelium-Derived Factor)	Human	0.9–62.5 ng/mL	0.9 ng/mL	50 µL	CYT420
Phosphorylated Neurofilament, (pNF-H) Sandwich	Multi-Species	0.0293–15 ng/mL	0.0585 ng/mL	1–10 µL	NS170
S100B	Human	2.7–2000 pg/mL	1.3 pg/mL	50 µL	EZHS100B-33K

# Metabolic/Endocrine ELISAs

Our broad range of metabolic/endocrine ELISAs can help elucidate therapeutic mechanisms of action, aid in early diagnosis of disease states, predict toxicities, investigate metabolic diseases and more.

## ELISAs for Circulating Metabolism and Endocrine Biomarkers

Description	Species	Standard Curve Range	Sensitivity	Sample Volume	Cat. No.	Bulk Packaging Cat. No.*
Adiponectin	Human	1.56–200 ng/mL	0.2 ng/mL	10 µL	EZHADP-61K	EZHADP-61BK
Adiponectin (High Molecular Weight)	Human	1.5–200 ng/mL	0.5 ng/mL	10 µL	EZHMWAN-65K <b>NEW</b>	
Adiponectin	Mouse	1–50 ng/mL	0.2 ng/mL	10 µL	EZMADP-60K	EZMADP-60BK
Adiponectin	Rat	3.125–200 ng/mL	0.4 ng/mL	10 µL	EZRADP-62K	
Amylin (active)	Human	1–100 pM	0.7 pM	50 µL	EZHA-52K	EZHA-52BK
C-Peptide	Human	0.2–20 ng/mL	0.05 ng/mL	10 µL	EZHCP-20K	EZHCP-20BK
C-Peptide	Canine	0.2–10 ng/mL	0.24 ng/mL	25 µL	EZCCP-47K	EZCCP-47BK
C-Peptide 2	Mouse, Rat	25–1600 pM	15.0 pM	20 µL	EZRMCP2-21K	
FGF-21	Human	31.25–2000 pg/mL	10.0 pg/mL	50 µL	EZHFGF21-19K	
FGF-21	Mouse, Rat	49.4–12,000 pg/mL	10.0 pg/mL	10 µL	EZRMFGF21-26K	
FGF-23	Human	9.9–2400 pg/mL	3.5 pg/mL	50 µL	EZHFGF23-32K	EZHFGF23-32BK
Ghrelin (active)	Human	25–2000 pg/mL	15.0 pg/mL	20 µL	EZGRA-88K	EZGRA-88BK
Ghrelin (active)	Mouse, Rat	25–2000 pg/mL	8.0 pg/mL	20 µL	EZRGRA-90K	
Ghrelin (total)	Human	100–5000 pg/mL	50.0 pg/mL	20 µL	EZGRT-89K	EZGRT-89BK
Ghrelin (total)	Mouse, Rat	0.1–10 ng/mL	0.04 ng/mL	20 µL	EZRGRT-91K	
GIP (total)	Human	8.2–2000 pg/mL	4.2 pg/mL	20 µL	EZHGIP-54K	EZHGIP-54BK
GIP (total)	Mouse, Rat	8.2–2000 pg/mL	4.2 pg/mL	10 µL	EZRMGIP-55K	EZRMGIP-55BK
GLP-1 (active)	Multi-Species	2–100 pM	1.0 pM	100 µL	EGLP-35K	EGLP-35BK
GLP-1 High Sensitivity (active) Δ••	Multi-Species	See data sheet	0.14 pM	50 µL	EZGLPHS-35K	EZGLPHS-35BK
GLP-1 (total)	Multi-Species	4.1–1000 pM	1.0 pM	20–50 µL	EZGLP1T-36K	EZGLP1T-36BK
GLP-2	Multi-Species	1–64 ng/mL	0.3 ng/mL	50 µL	EZGLP2-37K	
Glucagon Δ <b>WHO</b>	Human, Mouse, Rat	0.02–2 ng/mL	0.003 ng/mL	150–300 µL	EZGLU-30K	EZGLU-30BK
Growth Hormone (GH)	Mouse, Rat	0.7–50 ng/mL	0.07 ng/mL	10 µL	EZRMGH-45K	EZRMGH-45BK
Insulin <b>WHO</b>	Human	2–200 µU/mL	1.0 µU/mL	20 µL	EZHI-14K	EZHI-14BK
Insulin	Rat, Mouse	0.2–10 ng/mL	0.1 ng/mL	10 µL	EZRMI-13K	EZRMI-13BK
Insulin (Animal serum free)	Human	2–200 µU/mL	0.85 µU/m	20 µL	EZHIASF-14K	
Leptin	Canine	0.78–50 ng/mL	0.21 ng/mL	20 µL	EZCL-31K	
Leptin	Mouse	0.2–30 ng/mL	0.05 ng/mL	10 µL	EZML-82K	EZML-82BK
Leptin	Rat	0.2–30 ng/mL	0.08 ng/mL	10 µL	EZRL-83K	EZRL-83BK
Leptin “Dual Range” <b>WHO</b>	Human	0.5–100 ng/mL	0.2 ng/mL	25 µL	EZHL-80SK	EZHL-80BK
Pancreatic Polypeptide	Human	12.6–3000 pg/mL	12.3 pg/mL	50 µL	EZHPP-40K	EZHPP-40BK
Procollagen Type IIA N-Propeptide (PIIANP)	Human	lot dependent	30.0 ng/mL	5 µL	EZPIIANP-53K	
Proinsulin (total) <b>WHO</b>	Human	2–200 pM	0.5 pM	20 µL	EZHPI-15K	EZHPI-15BK
PYY (total)	Human	10–2000 pg/mL	6.5 pg/mL	20 µL	EZHPLYT66K	
Resistin	Human	0.16–5 ng/mL	0.02 ng/mL	20 µL	EZHR-95K	EZHR-95BK
SAA-3	Mouse	0.078–5 µg/mL	0.078 µg/mL	10 µL	EZMSAA3-12K	

\* Bulk packaging now available on select kits — more environmentally friendly and saves space (10 kit equivalent)

•• Preferred assay for measuring GLP-1 (active)

Δ Chemiluminescent assay

## Cytokine/Chemokine ELISAs

Cytokines are soluble proteins and peptides that modulate activities of cells and tissues under both normal and pathological conditions. Our high-quality, cost-effective cytokine/chemokine ELISAs provide consistent and reliable measurements for your studies of inflammation, immune response, metabolism, neurological disorders and more.

### ELISAs for Circulating Cytokines

Description	Species	Cat. No.
CRP	Human	<b>CYT298</b>
CRP	Rat	<b>CYT294</b>
IFN $\gamma$	Human	<b>RAB0222-1KT*</b>
IFN $\gamma$	Mouse	<b>RAB0224-1KT*</b>
IL-1 $\beta$	Human	<b>RAB0273-1KT*</b>
IL-2	Human	<b>RAB0286-1KT*</b>
IL-2	Mouse	<b>RAB0287-1KT*</b>
IL-4	Human	<b>RAB0298-1KT*</b>
IL-4	Mouse	<b>RAB0299-1KT*</b>
IL-6	Human	<b>RAB0306-1KT*</b>
IL-6	Mouse	<b>RAB0308-1KT*</b>
IL-6	Rat	<b>RAB0311-1KT*</b>
IL-8/CLCX8	Human	<b>RAB0319-1KT*</b>
IL-10	Human	<b>RAB0244-1KT*</b>
IL-10	Mouse	<b>RAB0245-1KT*</b>
IL-12(p70)	Human	<b>RAB0252-1KT*</b>
IL-13	Human	<b>RAB0256-1KT*</b>
IL-15	Human	<b>RAB0259-1KT*</b>
TNF- $\alpha$	Human	<b>RAB0476-1KT*</b>
TNF- $\alpha$	Mouse	<b>RAB0477-1KT*</b>
TNF- $\alpha$	Rat	<b>RAB0479-1KT*</b>

\* Order through [sigma-aldrich.com](http://sigma-aldrich.com)



## Cell Signaling ELISAs

STAR (Signal Transduction Assay Reaction) ELISAs are a fast, sensitive method for measuring relative levels of total and phosphorylated signaling proteins with phospho-specific antibodies. Easily quantitate the phosphorylation states of key signaling proteins, second messengers transmitting intracellular signals and apoptosis pathway proteins using these kits in less than five hours with minimal hands-on time.

### STAR ELISAs

Description	Species	Cat. No.
Phospho-I $\kappa$ B (Ser32)	Human	<b>17-486</b>

## Extracellular Matrix (ECM)

Gain deeper insights into cell adhesion, migration, differentiation, invasion and survival by quantitating circulating ECM proteins using our sensitive, specific and reliable ECM ELISAs.

### ECMs

Description	Species	Cat. No.
Quantimatrix™ Fibronectin	Human	<b>ECM300</b>
Quantimatrix™ Laminin	Human	<b>ECM310</b>
sE-Selectin	Human	<b>ECM330</b>
sICAM-1	Human	<b>ECM335</b>
sVCAM-1	Human	<b>ECM340</b>
sCD26	Human	<b>ECM345</b>
MMP-2	Human	<b>ECM492</b>
MMP-9	Human	<b>ECM494</b>
TIMP-1	Human	<b>ECM496</b>
TIMP-2	Human	<b>ECM498</b>

For additional ELISAs, please visit  
[sigma-aldrich.com](http://sigma-aldrich.com)