abcam

Product datasheet

Human sTNF RII ELISA Kit (TNFRSF1B) ab260061

Recombinant SimpleStep ELISA

7 Images

Overview						
Product name	Human sTNF RII ELISA Kit (TNFRSF1B)					
Detection method	Colorimetric					
Precision						Intra-assay
	Sample	n	Mea	n	SD	CV%
	Serum	8				2.5%
						Inter-assay
	Sample	n	Mea	n	SD	CV%
	Serum	3				2.5%
Sample type	Cell culture supernatant, Ur	ine, Serum,	Hep P	Plasma, EDTA F	Plasma, Cit	plasma
Assay type	Sandwich (quantitative)					
Sensitivity	4.88 pg/ml					
Range	15.63 pg/ml - 1000 pg/ml					
Recovery						Sample specific recovery
	Sample type			Average %		Range

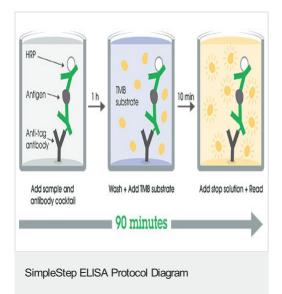
Sample type	Average %	Range
Cell culture supernatant	95	88% - 107%
Urine	103	91% - 119%
Serum	101	91% - 110%
Hep Plasma	105	90% - 117%
EDTA Plasma	90	81% - 103%
Cit plasma	105	93% - 113%

A	41.00		
Assay time	1h 30m		
Assay duration Species reactivity	One step assay Reacts with: Human		
Species reactivity	Does not react with: Cow		
Product overview	Human sTNF RII ELISA Kit (TNFRSF1B) (ab260061) is a single-wash 90 min sandwich ELISA designed for the quantitative measurement of sTNF RII (TNFRSF1B) protein in cell culture supernatant, cit plasma, edta plasma, hep plasma, serum, and urine. It uses our proprietary SimpleStep ELISA® technology. Quantitate Human sTNF RII (TNFRSF1B) with 4.88 pg/ml sensitivity.		
	SimpleStep ELISA® technology employs capture antibodies conjugate recognized by the monoclonal antibody used to coat our SimpleStep EL approach to sandwich ELISA allows the formation of the antibody-analy single step, significantly reducing assay time. See the SimpleStep ELIS the image section for further details. Our SimpleStep ELISA® technology benefits:	LISA® plates. This te sandwich complex in a SA® protocol summary in	
	 Single-wash protocol reduces assay time to 90 minutes or less High sensitivity, specificity and reproducibility from superior antibe Fully validated in biological samples 96-wells plate breakable into 12 x 8 wells strips 	odies	
	A 384-well SimpleStep ELISA® microplate (ab203359) is available to 96-well microplate provided with SimpleStep ELISA® kits.	use as an alternative to the	
Notes	Soluble Tumor Necrosis Factor Receptor II (sTNF RII), also known as TNFRSF1B, p75/p80, and CD120b, is a widely expressed receptor for membrane-associated TNF-alpha and Lymphotoxin- alpha. Its activation initiates pro-inflammatory and pro-survival responses via NFkB-dependent signaling pathways, although it may also induce apoptosis. The TNF RII extracellular domain can be proteolytically cleaved to make soluble TNF RII. The standard protein in this kit is soluble TNF RII and the capture and detector antibodies were raised against this region of TNF RII.		
Platform	Pre-coated microplate (12 x 8 well strips)		
Properties			
Storage instructions	Store at +4°C. Please refer to protocols.		
Components		1 x 96 tests	
10X Human sTNF RII (TNFRSF1B) Capture Antibody		1 x 600µl	
10X Human sTNF RII (TNFRSF1B) Detector Antibody		1 x 600µl	
10X Wash Buffer PT (ab206977)		1 x 20ml	
Antibody Diluent 4BI		1 x 6ml	
Human sTNF RII (TNFRSF1B) Lyophilized Recombinant Protein		2 vials	

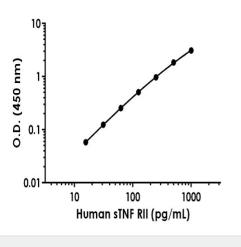
Components	1 x 96 tests
Plate Seals	1 unit
Sample Diluent NS (ab193972)	1 x 50ml
SimpleStep Pre-Coated 96-Well Microplate (ab206978)	1 unit
Stop Solution	1 x 12ml
TMB Development Solution	1 x 12ml

Function	Receptor with high affinity for TNFSF2/TNF-alpha and approximately 5-fold lower affinity for homotrimeric TNFSF1/lymphotoxin-alpha. The TRAF1/TRAF2 complex recruits the apoptotic suppressors BIRC2 and BIRC3 to TNFRSF1B/TNFR2. This receptor mediates most of the metabolic effects of TNF-alpha. Isoform 2 blocks TNF-alpha-induced apoptosis, which suggests that it regulates TNF-alpha function by antagonizing its biological activity.
Sequence similarities	Contains 4 TNFR-Cys repeats.
Post-translational modifications	Phosphorylated; mainly on serine residues and with a very low level on threonine residues. A soluble form (tumor necrosis factor binding protein 2) is produced from the membrane form by proteolytic processing.
Cellular localization	Secreted and Cell membrane.

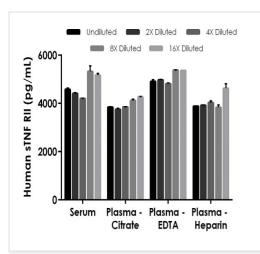
Images



SimpleStep ELISA technology allows the formation of the antibodyantigen complex in one single step, reducing assay time to 90 minutes. Add samples or standards and antibody mix to wells all at once, incubate, wash, and add your final substrate. See protocol for a detailed step-by-step guide.



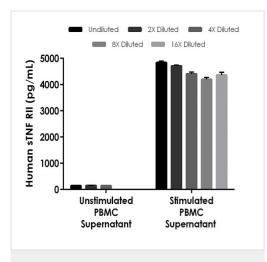
Example of Human sTNF RII standard curve in Sample Diluent NS.



Interpolated concentrations of native sTNF RII in Human serum and plasma samples.

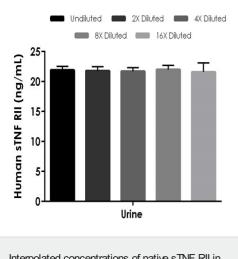
The sTNF RII standard curve was prepared as described in Section 10. Raw data values are shown in the table. Background-subtracted data values (mean +/- SD) are graphed.

The concentrations of sTNF RII were measured in duplicates, interpolated from the sTNF RII standard curves and corrected for sample dilution. Undiluted samples are as follows: serum 12.5%, plasma (citrate) 25%, plasma (EDTA) 12.5%, and plasma (heparin) 25%. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2). The mean sTNF RII concentration was determined to be 4735.93 pg/mL in serum, 3966.75 pg/mL in plasma (citrate), 5085.66 pg/mL in plasma (EDTA), and 4056.80 pg/mL in plasma (heparin).



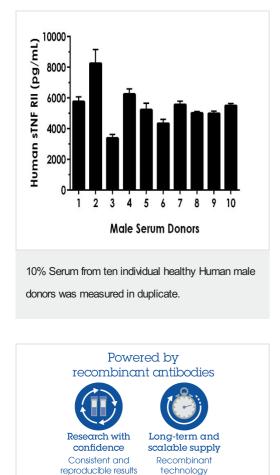
The concentrations of sTNF RII were measured in duplicates, interpolated from the sTNF RII standard curves and corrected for sample dilution. Undiluted samples are as follows: Unstimulated PBMC cell culture supernatant 50%, PHA-M stimulated PBMC cell culture supernatant 12.5%. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2). The mean sTNF RII concentration was determined to be 145.97 pg/mL in unstimulated PBMC supernatant and 4504.38 pg/mL PHA-M stimulated PBMC supernatant.

Interpolated concentrations of native sTNF RII in Human PBMC cell culture supernatant samples.



Interpolated concentrations of native sTNF RII in Human urine samples.

The concentrations of sTNF RII were measured in duplicates, interpolated from the sTNF RII standard curves and corrected for sample dilution. Undiluted samples are as follows: urine 2.5%. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2). The mean sTNF RII concentration was determined to be 21.79 ng/mL in urine.



Interpolated dilution factor corrected values are plotted (mean +/-SD, n=2). The mean sTNF RII concentration was determined to be 5427.51 pg/mL with a range of 3377.03 – 8250.55 pg/mL.

To learn more about the advantages of recombinant antibodies see **here**.

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Kit (TNFRSF1B) (ab260061)

Sandwich ELISA - Human sTNF RII ELISA

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