abcam

Product datasheet

Mouse LOX1 ELISA Kit (OLR1) ab204521

אילשעבע SimpleStep ELISA

画像数 7

製品の概要							
製品名	Mouse LOX1 ELISA Kit (OLR1)						
検出方法	Colorimetric						
再現性				Intr	a-Assay(同時再現性)		
	サンプル	Ν	平均值	SD	CV%		
	Mouse serum	8			2.8%		
	Inter-Assay(日差再現性)						
	サンプル	Ν	平均值	SD	CV%		
	Mouse serum	3			8.9%		
サンプルの種類	Cell culture supernatant, Serum, Hep Plasma, EDTA Plasma, Cit plasma						
アッセイタイプ	Sandwich (quantitative)						
検出感度	7.9 pg/ml						
検出範囲	62.5 pg/ml - 4000 pg/ml						
添加回収試験 特定サンプルでの							
	サンプルの種類		平均%	測定範囲			
	Serum		87	86% - 88%			
	Cell culture media		109	108% - 110%			
	Hep Plasma		106	99% - 111%			
	EDTA Plasma		108	100% - 113%			
	Cit plasma		113	103% - 119%	6		

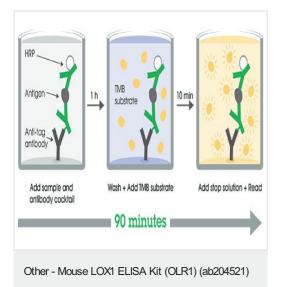
全工程の試験時間

1h 30m

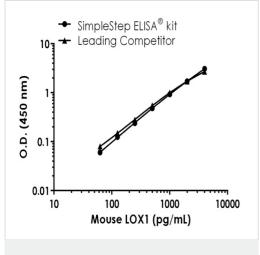
種交差性	交差種: Mouse 非交差種: Goat, Cow, Pig				
製品の概要	Mouse LOX1 ELISA Kit (OLR1) (ab204521) is a single-wash 90 min sandwich ELISA designed for the quantitative measurement of LOX1 (OLR1) protein in cell culture supernatant, cit plasma, edta plasma, hep plasma, and serum. It uses our proprietary SimpleStep ELISA® technology. Quantitate Mouse LOX1 (OLR1) with 7.9 pg/ml sensitivity.				
	SimpleStep ELISA® technology employs capture antibodies conjugar recognized by the monoclonal antibody used to coat our SimpleStep I approach to sandwich ELISA allows the formation of the antibody-ana- single step, significantly reducing assay time. See the SimpleStep EL the image section for further details. Our SimpleStep ELISA® technol benefits:	ELISA® plates. This lyte sandwich complex in a .ISA® protocol summary in			
	 Single-wash protocol reduces assay time to 90 minutes or less High sensitivity, specificity and reproducibility from superior anti Fully validated in biological samples 96-wells plate breakable into 12 x 8 wells strips 	ibodies			
	A 384-well SimpleStep ELISA® microplate (<u>ab203359</u>) is available t 96-well microplate provided with SimpleStep ELISA® kits.	o use as an alternative to the			
特記事項	Mouse Lectin like oxidized low density lipoprotein receptor 1 (LOX1), also known as oxidized low density lipoprotein receptor 1 (OLR-1), is a type II transmembrane receptor belonging to the C type lectin family. The mouse LOX1 gene encodes a 363 amino acid (aa) residue protein with a short N-terminal intracellular domain, a transmembrane domain, and a C-type lectin like domain which is required for ligand recognition. Mouse LOX1 has 57% and 79% identity to Human and Rat LOX1, respectively.				
	LOX1 is a receptor that mediates the recognition, internalization, and modified low density lipoprotein (oxLDL) by vascular endothelial cells atherosclerosis that induces vascular endothelial cell activation and dy inflammatory responses, pro-oxidative conditions and apoptosis. The oxLDL induces the activation of NF-kappa-B through an increased proreactive oxygen and a variety of pro-atherogenic cellular responses in oxide (NO) release, monocyte adhesion and apoptosis. In addition to as a receptor for the HSP70 protein involved in antigen cross-present dendritic cells, thereby participating in cell-mediated antigen cross-present also acts as a receptor for advanced glycation end (AGE) products, a monocytes, and apoptotic cells.	OxLDL is a marker of ysfunction, resulting in pro- association of LOX1 with oduction of intracellular icluding a reduction of nitric binding oxLDL, LOX1 acts tation to naive T-cells in esentation. Finally, LOX1			
試験プラットフォーム 製品の特性	Pre-coated microplate (12 x 8 well strips)				
(安加の特性) 保存方法	Store at +4°C. Please refer to protocols.				
内容		1 x 96 tests			
10X Mouse LOX1 Capture Antiboo	ły	1 x 600µl			

内容	1 x 96 tests
10X Mouse LOX1 Detector Antibody	1 x 600µl
10X Wash Buffer PT (ab206977)	1 x 20ml
Antibody Diluent 5BI	1 x 6ml
Mouse LOX1Lyophilized Recombinant Protein	2 vials
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

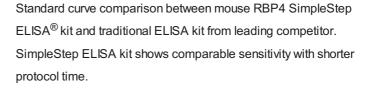
機能	Receptor that mediates the recognition, internalization and degradation of oxidatively modified low density lipoprotein (oxLDL) by vascular endothelial cells. OxLDL is a marker of atherosclerosis that induces vascular endothelial cell activation and dysfunction, resulting in pro- inflammatory responses, pro-oxidative conditions and apoptosis. Its association with oxLDL induces the activation of NF-kappa-B through an increased production of intracellular reactive oxygen and a variety of pro-atherogenic cellular responses including a reduction of nitric oxide (NO) release, monocyte adhesion and apoptosis. In addition to binding oxLDL, it acts as a receptor for the HSP70 protein involved in antigen cross-presentation to naive T-cells in dendritic cells, thereby participating in cell-mediated antigen cross-presentation. Also involved in inflammatory process, by acting as a leukocyte-adhesion molecule at the vascular interface in endotoxin-induced inflammation. Also acts as a receptor for advanced glycation end (AGE) products, activated platelets, monocytes, apoptotic cells and both Gram-negative and Gram- positive bacteria.
組織特異性	Expressed at high level in endothelial cells and vascular-rich organs such as placenta, lung, liver and brain, aortic intima, bone marrow, spinal cord and substantia nigra. Also expressed at the surface of dendritic cells. Widely expressed at intermediate and low level.
関連疾患	Note=Independent association genetic studies have implicated OLR1 gene variants in myocardial infarction susceptibility. Note=OLR1 may be involved in Alzheimer disease (AD). Involvement in AD is however unclear: according to some authors (PubMed:12354387, PubMed:12810610 and PubMed:15976314), variations in OLR1 modify the risk of AD, while according to other (PubMed:15000751 and PubMed:15060104) they do not.
配列類似性	Contains 1 C-type lectin domain.
ドメイン	The cytoplasmic region is required for subcellular sorting on the cell surface. The C-type lectin domain mediates the recognition and binding of oxLDL.
翻訳後修飾	The intrachain disulfide-bonds prevent N-glycosylation at some sites. N-glycosylated.
細胞内局在	Cell membrane. Secreted. A secreted form also exists.

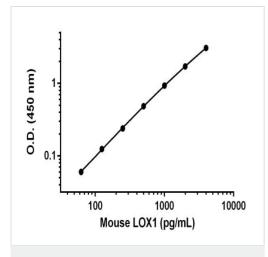


SimpleStep ELISA technology allows the formation of the antibodyantigen complex in one single step, reducing assay time to 90 minutes. Add samples or standards and antibody mix to wells all at once, incubate, wash, and add your final substrate. See protocol for a detailed step-by-step guide.



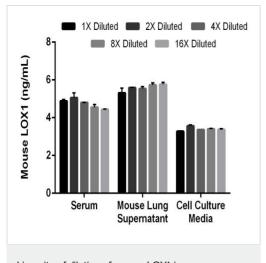
Mouse LOX1 standard curve comparison data.





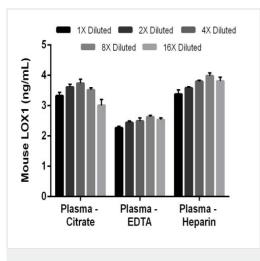
Example of the mouse LOX1 standard curve in Sample Diluent NS.

Background-subtracted data values (mean +/- SD) are graphed.

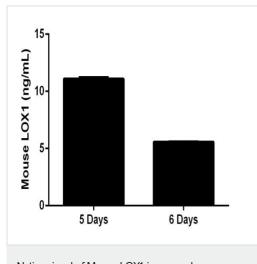


Native mouse LOX1 was measured in 50% mouse serum and 50% mouse lung supernatants (lung cultured 6 days in RPMI + 10% Fetal Bovine Serum) diluted in a 2-fold dilution series in Sample Diluent NS. Recombinant mouse LOX1 was spiked into 10% cell culture media and diluted in a 2-fold dilution series in Sample Diluent NS. The concentrations of mouse LOX1 were measured in duplicate and interpolated from the mouse LOX1 standard curve and corrected for sample dilution. The interpolated dilution factor corrected values are graphed (mean +/- SD).

Linearity of dilution of mouse LOX1 in serum, mouse lung supernatants, and cell culture media.



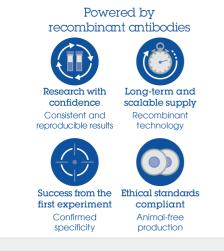
Linearity of dilution of mouse LOX1 in plasma samples.



Native signal of Mouse LOX1 in mouse lung supernatants.

Native mouse LOX1 was measured in 25% mouse plasma citrate, 100% mouse plasma EDTA, and 50% mouse plasma heparin diluted in a 2-fold dilution series in Sample Diluent NS. The concentrations of mouse LOX1 were measured in duplicate and interpolated from the mouse LOX1 standard curve and corrected for sample dilution. The interpolated dilution factor corrected values are graphed (mean +/- SD).

Separate sections of mouse lung were cultured for either 5 or 6 days in RPMI + 10% Fetal bovine serum. The concentrations of mouse LOX1 were measured in duplicate in 25% mouse lung supernatants and interpolated from the mouse LOX1 standard curve and corrected for sample dilution. The interpolated dilution factor corrected values are graphed (mean +/- SD).



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

Sandwich ELISA - Mouse LOX1 ELISA Kit (OLR1)

(ab204521)

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