Platelet activation marker

New Release!

- Research Use Only-

Product Code No.	Product Name	Package Size	Measurement Range	Sample Type	Measuring Sample
27820	sCLEC-2 ELISA Kit – IBL	96 Well	6.25 ～ 400 pg/mL	Human	citrated plasma

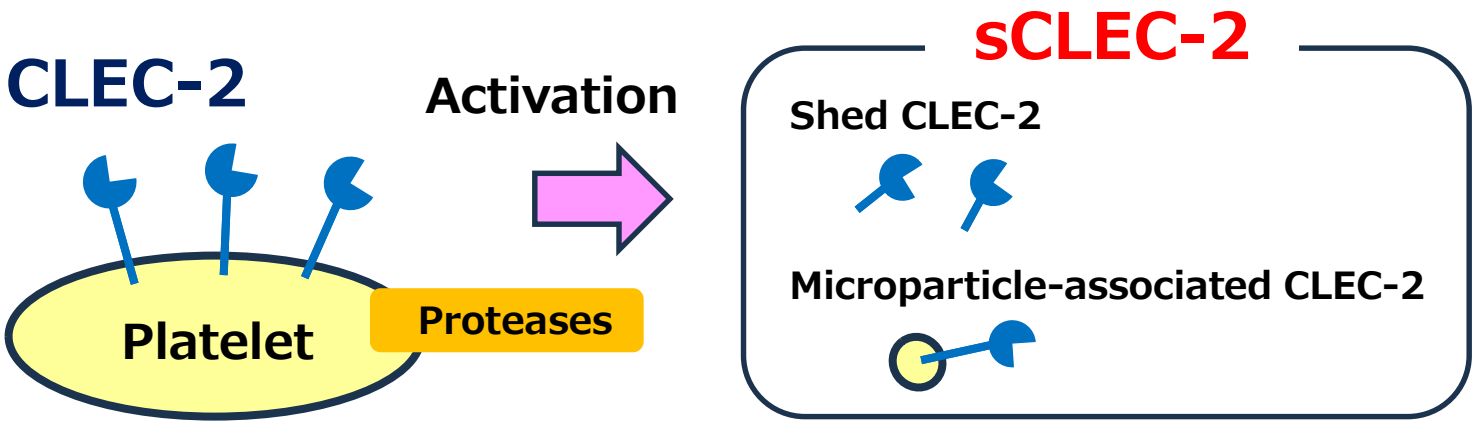
CLEC-2 (C-type lectin-like receptor 2)

is identified as the receptor for the platelet-activating snake venom, rhodocytin, and is predominantly expressed in platelets and megakaryocytes. It has been implicated in various physiological and pathological processes, including cancer metastasis and thrombosis.
Platelets are activated by factors such as collagen and shear stress when the vascular wall is damaged by trauma or inflammation. During this process, membrane-bound CLEC-2 is cleaved by platelet-derived proteases and shed into the bloodstream as soluble CLEC-2 (sCLEC-2). Furthermore, CLEC-2 is also considered to be released in association with platelet-derived microparticles generated during platelet activation, suggesting that sCLEC-2 is present in the circulation in multiple forms, including microparticle-associated forms.

＊Sciforiem® PL series: chemically synthesized substances (developed by artience Co., Ltd.) is deployed for substitute BSA.

#27820 sCLEC-2 ELISA Kit – IBL is available to detect both shed and microparticle-associated CLEC-2

It has been reported that blood levels of sCLEC-2 are increased in arterial thrombosis, such as cerebral infarction and myocardial infarction, and further studies are warranted.
Citrated plasma is recommended for measurement.



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【References】

Kazama F et al. *Platelets*. 2015;26(8):711-9.
Inoue O et al. *Int J Hematol*. 2019;110(3):285-294.
Inoue O et al. *Japanese Journal of Clinical Chemistry*. 2023;52(1): 21-29.

PRINCIPLE AND FEATURE

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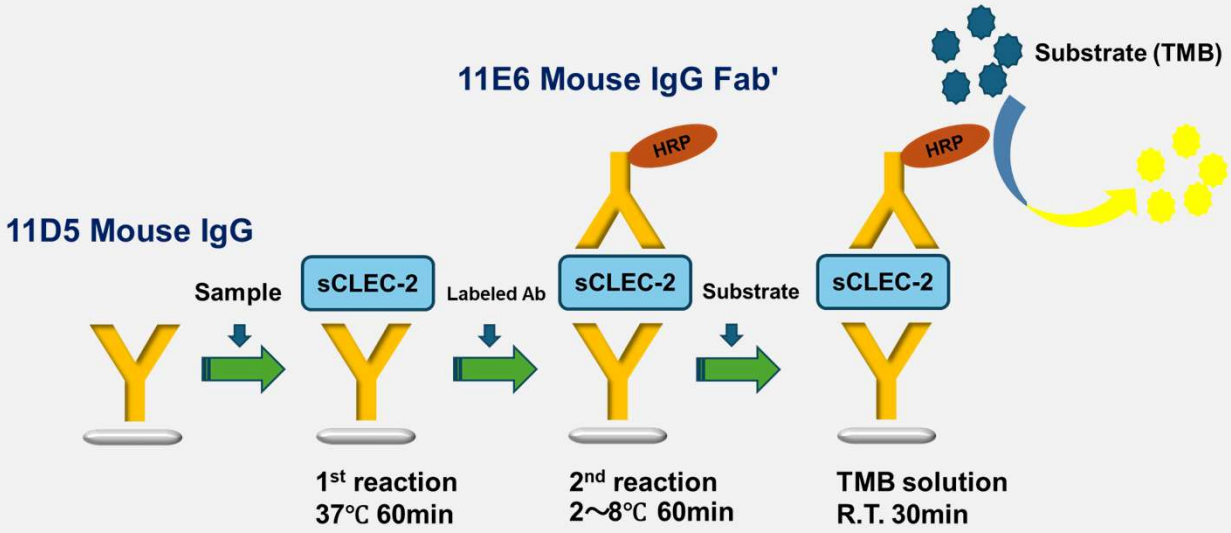
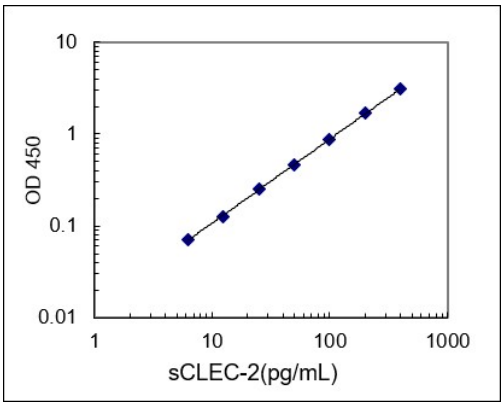


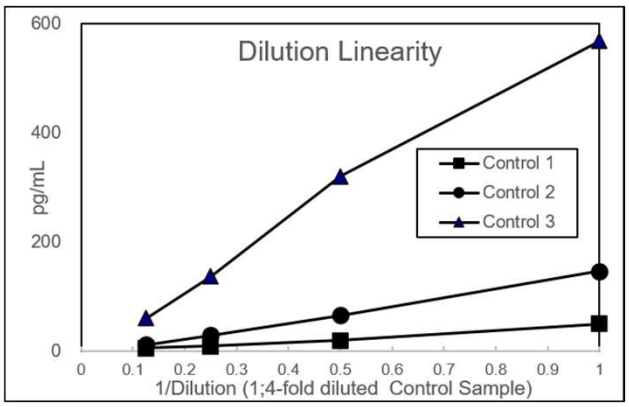
PERFORMANCE AND CHARACTERISTICS

Example of standard curve



Standard curve should run for each assay.

Dilution linearity



Sensitivity

1.06 pg/mL
(Calculated by NCCLS method using the standard.)

Measurement range

6.25 ～ 400 pg/mL

Specificity

Substance	Cross reactivity (%)
sCLEC-2	100%
Human Platelet Factor 4	＜0.1 %
Human β-Thrombin	＜0.1 %
Human P-Selectin	＜0.1 %

Intra-assay

Measurement value (pg/mL)	SD(pg/mL)	CV (%)	n
183.93	7.30	4.0	24
44.78	1.63	3.6	24
16.74	1.42	8.5	24

Spike recovery assay

Specimen	Additive Amount (pg/mL)	Theoretical Value (pg/mL)	Measurement Value (pg/mL)	%
Human citrated plasma (x4)	200	235.51	245.23	104.1
	100	135.51	138.83	102.5
	50	85.51	93.15	108.9

Inter-assay

Measurement value (pg/mL)	SD (pg/mL)	CV (%)	n
188.19	11.86	6.3	10
42.12	3.98	9.4	10
17.01	1.78	10.5	10

Interfering Substances

Hemolyzed hemoglobin (up to 530 mg/dL),
Free bilirubin (up to 5.2 mg/dL),
Conjugated bilirubin (up to 10 mg/dL),
Chyle (up to 1420 FTU),
Triglyceride (up to 500 mg/dL) and
Rheumatoid Factor (up to 250 IU/mL)
have no influence on the assay results.

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