

Anti-h Amyloid beta R13622 SPTN-5

Product overview

Catalog number	140084
Specificity	Antibody recognizes the N-terminus of amyloid beta peptide
Description	Recombinant mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
Shelf life and storage	Unspecified, storage at 2–8 °C
Subclass	IgG ₁
Analyte description	Altered levels of amyloid beta are commonly associated with neurodegenerative diseases, such as Alzheimer's disease. It is one of the primary components of amyloid plaques found in the brain of affected individuals.
Product appearance	Liquid
Product concentration	5.0 mg/ml (+/-10 %) (A280 nm, 1 mg/ml, 1 cm = 1.5)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	7.3–8.5
Purity	≥ 95 %

Kinetic parameters

Association rate constant	2.9×10^6 1/Ms
Dissociation rate constant	1.8×10^{-4} 1/s
Affinity constant	$K_A = 1.6 \times 10^{10}$ 1/M; $K_D = 6.3 \times 10^{-11}$ M (= 0.06 nM)
Determination method	BLI (Octet RED96e)
Determination antigen	β-Amyloid (1-40), GenScript (Cat RP20528)



Legal disclaimer

Cross-reactivities Recognizes both amyloid beta 1-40 and 1-42.

Epitope N-terminal part of amyloid beta

Pair recommendations

		DETECTION			
		R13602	R13611	R13622	R13625
CAPTURE	R13602 (1-42)	-	-	+	+
	R13611 (1-40)	-	-	+	+
	R13622 (N-terminal)	-	-	-	-
	R13625 (N-terminal)	-	-	-	-

Following pairs are recommended for the detection of amyloid beta 1-40:
FIA, CLIA: R13611 (capture) – R13622 (detection), R13611 (capture) – R13625 (detection)

Following pairs are recommended for the detection of amyloid beta 1-42:
FIA, CLIA: R13602 (capture) – R13622 (detection), R13602 (capture) – R13625 (detection)

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

Platforms tested FIA, CLIA

Antigens tested Not Determined (N/D)

Product stability	TEMPERATURE, TIME	RESULT
	-70 °C, 21 days	OK
	-20 °C, 21 days	OK
	+4 °C, 21 days	OK
	+35 °C, 21 days	OK
	+45 °C, 7 days	OK

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2–8 °C in the product buffer.

Miscellaneous

Antibodies may show precipitation after prolonged storage or repeated vial opening. Any resulting precipitation can be removed by filtration through a 0.2 µm filter without affecting antibody activity.

Store antibodies at the temperature specified for the product. Antibodies are stable until the expiry date when stored unopened at the specified temperature. Repeated opening of the vial should be avoided. If the specified storage temperature is frozen (e.g. –20 °C), repeated freeze–thaw cycles should be avoided.



References

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