Datasheet: BUF034C

Description:	ELISA SYNBLOCK
Name:	ELISA SYNBLOCK
Format:	Ready To Use
Product Type:	Accessory Reagent
Quantity:	1000 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			Neat

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Product Form

Ready to use - liquid

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.05% Sodium Azide

Product Information

ELISA Synblock is an ELISA buffer designed to avoid false positive results associated with buffers containing animal proteins (e.g. BSA) and reduce non-specific background signals in ELISA assays without the addition of the usual protein additives.

Intended Use

ELISA SynBlock is a novel protein-free blocking buffer suitable for use in all ELISA formats requiring maximum blocking strength. With detergent and synthetic blocking agents, the inert nature of this unique buffer enables maximum reduction of non-specific binding and interference associated particularly with sandwich ELISA assays.

Additional molecular stabilizers and an antimicrobial agent provide a long-term stable environment for coating antigen or capture antibody. Plates can be blocked at room temperature and stored once dried for up to a year at +4°C.

N.B. SynBlock is not suitable for use on Immunlon® 2 plates. Bio-Rad recommends the

use of BUF033A for this purpose.

Instructions For Use

1. Coat ELISA plate with antibody or antigen as required.

2. After incubation, remove the coating solution and wash the plate x2 with wash buffer. BUF031A can be used for this purpose.

3. Add 300-400ul of BUF034C and incubate for 2-24 hours. Use a volume equal to or greater than the volume of coating solution.

4. After removal of the blocking buffer continue with the assay or dry the plate for long-term storage at +4°C.

References

1. Afrough, B. *et al.* (2007) Identification and elimination of false-positives in an ELISA-based system for qualitative assessment of glycoconjugate binding using a selection of plant lectins. Biotechniques. 43 (4): 458, 460, 462 passim.
2. Dalley, D. *et al.* (2008) Development and evaluation of a gamma-interferon assay for tuberculosis in badgers *(Meles meles).* Tuberculosis (Edinb). 88: 235-43.
3. Ahmed, R.R. *et al.* (2010) BACE1 and BACE2 enzymatic activities in Alzheimer's disease. J Neurochem. 112: 1045-53.
4. Chambers, M.A. *et al.* (2009) Performance of TB immunodiagnostic tests in Eurasian badgers (*Meles meles*) of different ages and the influence of duration of infection on serological sensitivity. BMC Vet Res. 5: 42.
5. Thompson, R. *et al.* (2011) Optimization of the enzyme-linked lectin assay for enhanced glycoprotein and glycoconjugate analysis. Anal Biochem. 413: 114-22.
6. Kuramitz, H. *et al.* (2012) Multiplexed assay for proteins based on sequestration electrochemistry using the protein binding electroactive magnetic microbeads. Anal Sci. 28 (1): 77.
7. Dwek, M.V. *et al.* (2010) A sensitive assay to measure biomarker glycosylation demonstrates increased fucosylation of prostate specific antigen (PSA) in patients with prostate cancer compared with benign prostatic hyperplasia. Clin Chim Acta. 411 (23-24): 1935-9.
8. Verhelst, R. *et al.* (2010) The effects of plant polyphenols on enterotoxigenic *Escherichia coli* adhesion and toxin binding Livestock Science. 133 (1-3): 101-3
9. Verhelst, R. *et al.* (2013) *E. coli* heat labile toxin (LT) inactivation by specific polyphenols is aggregation dependent. Vet Microbiol. 163 (3-4): 319-24.
10. Greenwell P *et al.* (2008) Purification and analysis of DNases of *Tritrichomonas foetus*: evidence that these enzymes are glycoproteins. Int J Parasitol. 38 (7): 749-56.
11. Beckett, T.L. *et al.* (2013) A ketogenic diet improves motor performance but does not affect β-amyloid levels in a mouse model of Alzheimer's disease. Brain Res. 1505: 61-7.
12. Abdul, H.M. *et al.* (2009) Cognitive decline in Alzheimer's disease is associated with selective changes in calcineurin/NFAT signaling. J Neurosci. 29 (41): 12957-69.
13. Niedowicz DM *et al.* (2013) Leptin regulates amyloid β production via the γ-secretase complex. Biochim Biophys Acta. 1832 (3): 439-44.
14. Martin SB *et al.* (2014) Synaptophysin and synaptojanin-1 in Down syndrome are differentially affected by Alzheimer's disease. J Alzheimers Dis. 42 (3): 767-75.
15. Wilcock, D.M. *et al.* (2015) Down syndrome individuals with Alzheimer's disease have

a distinct neuroinflammatory phenotype compared to sporadic Alzheimer's disease. Neurobiol Aging. 36 (9): 2468-74.
16. Chinthamani S *et al.* (2017) Macrophage inducible C-type lectin (Mincle) recognizes glycosylated surface (S)-layer of the periodontal pathogen *Tannerella forsythia*. PLoS One. 12 (3): e0173394.
17. LeVine, H. 3rd.*et al.* (2017) Down syndrome: age-dependence of PiB binding in postmortem frontal cortex across the lifespan. Neurobiol Aging. 54: 163-9.

Storage	Store at +4°C. DO NOT FREEZE
Guarantee	Guaranteed until date of expiry. Please see product label.
Health And Safety Information	Material Safety Datasheet documentation #10380 available at: https://www.bio-rad-antibodies.com/SDS/BUF034C 10380
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

5x ELISA COATING BUFFER (BUF030A)
10x ELISA WASH BUFFER (BUF031A)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
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