High Performance Blocking Reagents

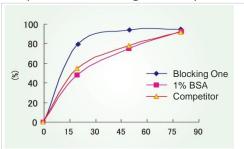


■ Blocking One

Blocking is indispensable in immunoassays in order to block non-specific binding reactions. Blocking One contains both high molecular weight compounds and bovine serum protein. Blocking One is superior to conventional blocking solutions. The preservative in Blocking One does not affect the enzyme activity of peroxidase (POD) or alkaline phosphatase (ALP). Only simple refrigerator storage is necessary, even after opening the bottle.

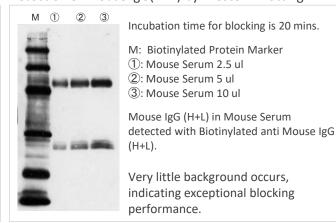
- Fast in many assays a reduction of incubation time for blocking can be realized
- Ready-to-use solution simple storage in refrigerator even after opening the bottle

Comparison of blocking efficiency



The relationship between the reaction time and the blocking efficiency in microplate assay. In comparison with other products, Blocking One shows the fastest dynamics.

Detection of Mouse IgG(H+L) by Western Blotting



■ Blocking One-P

In immunological detection methods, blocking agents containing phosphoproteins such as skim milk are not well suited for immunoassays with phospho-specific antibodies, and cause high background. Blocking One-P is an exclusive blocking solution, free of phosphate group and endogenous phosphatase. For phospho protein detection. The performance is superior compared with conventional blocking solutions such as 1% BSA. The preservative does not affect the enzyme activity of peroxidase (POD) or alkaline phosphatase (ALP). Only simple refrigerator storage is necessary, even after opening the bottle.

- Safe does not contain phosphorylated proteins
- Confirmed endogeneous phosphatase free
- High efficiency more effective than 1% BSA

	Composition	Phospho- specific Ab application	Blocking efficacy
Blocking One-P	High molecular weight compoundsBSA	+++	+++
Blocking One	High molecular weight compoundsBSACasein	+	+++
Skim milk	- Casein	-	+
1% BSA	- BSA	++	+

Western Blotting with phospho-specific antibody



Sample : HeLa whole cell lysate (1.0 x 10⁷)

+ RIPA Buffer (Cat No.: 08714-04) (1 ml)

Lane 1. 5 ul (SDS-PAGE Gel) Lane 2. 10 ul (SDS-PAGE Gel) Lane 3. 5 ul (Blotting Membrane) Lane 4. 10 ul (Blotting Membrane)

Lane 5. 5 ul

Lane 6. 10 ul

Blocking : Blocking One-P, 20 min.

Primary antibody : Anti-p-Tyr(PY20)(Mouse), Monoclonal (Santa Cruz: #sc-508), 1:2000 dilution

Secondary antibody : Anti-Mouse IgG-HRP (Santa Cruz: #sc-2005), 1:10000 dilution

: CBB Stain One (Cat. No.: 04543-51) Chemi-Lumi One L (Cat. No.: 07880-70)

■ Blocking One Histo

Blocking One Histo is a blocking buffer to prevent non-specific binding of antibodies in immunohistochemistry (IHC).

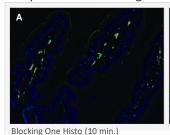
- Easy-to-use eye-drop bottle
- Confirmed can be used for immunofluorescence staining

Detection

• Safe – the preservative does not affect the activity of alkaline phosphatase or horseradish peroxidase



Comparison of blocking efficient with 10% Goat Serum (Immunofluorescence)



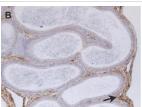


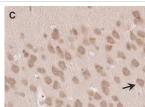
10% Goat Serum (10 min.)

In both panels, mouse small intestine tissue section was stained with secondary antibody conjugated with CF™ 488A (green) and counter stained with DAPI (blue). In the panel B with 10% Goat Serum, the stained white arrow along the lines of shape of small intestine show non-specific staining. Blocking One Histo is more effective at reducing non-specific background staining than normal serum.

Application data







- A: Mouse small intestine (PCNA) x5
- B: Mouse epididymis (Vimentin) x25
- C: Mouse brain (GluR) x100

Blocking treatment of each tissue section had been performed by Blocking One Histo. Mouse small intestine (panel A) was stained with anti-PCNA and DAB (3,3'-Diamino Benzidine) to stain nuclear (black arrow), Mouse epididymis (panel B) was stained with anti-Vimentin and DAB to stain nuscle (black arrow), Mouse brain (panel C) was stained with anti-GluR and DAB to stain membrane proteins (black arrow) and counter stained with hematoxylin.

Ordering information

Product Name	Storage	Cat. No.	Quantity	Price (US\$)
Blocking One	4°C	03953-95	500 ml	63.00
Blocking One-P	4°C	05999-84	200 ml	52.00
Blocking One Histo	4°C	06349-64	50 ml	105.00