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REAGENTS AND BUFFERS

Phosphate-Buffered Saline (PBS) (10X) 80g of NaCl 2.0g of KCl 14.4g of Na2HPO4 2.4g of KH2PO4 Mix 800mL ultra-pure water and adjust pH to 7.6 with pure HCl.Top up with ultra-pure water to 1L.

Phosphate-Buffered Saline w/ Tween20 (PBST) For IL: 100mL of PBS 10x + 890mL ultra-pure water + 10 mL Tween 20

Tris-Buffered Saline (TBS) (10X) 24.23g Trizma HCI 80.06g NaCl Mix in 800mL ultra-pure water and adjust pH to 7.6 with pure HCI.Top up with ultra-pure water to 1L.

Tris-Buffered Saline w/Tween20 (TBST) For IL: 100mL of TBS 10x + 890mL ultra-pure water + 10 mL Tween 20

WESTERN BLOTTING BUFFERS

RIPA Buffer

150mM NaCl 1.0% NP-40 or 0.1% Triton X-100 0.5% sodium deoxycholate 0.1% SDS (sodium dodecyl sulphate) 50mM Tris-HCl pH8.0 Protease Inhibitors

Tris-HCI buffer

20mM Tris-HCl pH7.5 Protease Inhibitors

Denaturing lysis buffer

1% SDS 5mM EDTA Immediately before use add: 10mM dithiothreitol or beta-mercaptoethanol Protease inhibitors 15U/mL DNase1 biossusa.com 800.501.7654 +1.781.569.5821 support@biossusa.com



Laemmli 2X buffer/loading buffer 4%SDS 10% 2-mercaptoethanol 20% glycerol 0.004%bromophenol blue 0.125M Tris-HCl Check the pH and adjust pH to 6.8. Running buffer 25mM Tris base 190mM glycine 0.1% SDS Check the pH, which should be about pH 8.3.Adjust if necessary.

Transfer buffer (wet) 25mM Tris base 190mM glycine 0.1% SDS The pH should be about pH8.3.Adjust if necessary.

Transfer buffer (semi-dry) 48mM Tris 39mM glycine 20% methanol 0.04% SDS

Blocking buffer 5% milk or BSA(bovine serum albumin) Add to TBST buffer. Mix well and filter.

IMMUNOHISTOCHEMISTRY/IMMUNOCYTOCHEMISTRY BUFFERS

Formalin solution (10%) 3.7-4% Formaldehyde (37-40%) 33mM NaH2PO4 46mM Na2HPO4

Paraformaldehyde (4%) 8% paraformaldehyde

0.2M Phosphate Buffer(PB) pH7.4 53mM NaH2PO4 154mM Na2HPO4 biossusa.com 800.501.7654 +1.781.569.5821 support@biossusa.com



Heat 8%PFA solution at 60C while stirring. Once the solution reaches 60C and the PFA dissolves, add 500mL of 0.2M phosphate buffer, to bring the solution to 4%PFA in 0.1M phosphate. Carefully add 1N NaOH until the solution is clear. Cool the solution and filter.

Sodium Citrate Buffer pH6.0

10mM sodium citrate 0.05% Tween20 Mix to dissolve sodium citrate and adjust pH to 6.0 with 1N HCI. Add Tween20 and mix well. Store at room temperature for 3 months or at 4C for longer storage.

ELISA BUFFERS

Bicarbonate/carbonate coating buffer (IoomM) pH9.6

Antigen or antibody should be diluted in coating buffer to immobilize them to the wells:

29mM Na2CO3 71mM NaHCO3

Blocking solution

Commonly used blocking agents are 1% BSA, serum, or non-fat dry milk in PBS.

Wash solution

Usually PBS or Tris-buffered saline(pH7.4) with detergent such as 0.05% (v/v) Tween 20 (TBST).

FLOW CYTOMETRY

FACS buffer/antibody dilution buffer

10% FCS 1% sodium azide in PBS

Permeabilization

0.1-1% Triton X-100/NP-40 in PBS

Fixative

0.01-0.1% paraformaldehyde in PBS.