

	SOP-BCR-5.10	<b>Staining Procedure for Goat Primary Antibody by using Zymed kit (Cat 85-8943) BUT using DAB substrate instead of AEC</b>	Author: S. Clouthier  Approved: M. Wicha 	Rev: 1.0	Issued: 09/24/98 Revised: 7/17/12
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## 1.0 Purpose

The purpose of SOP 5.10 is to provide instructions on the staining procedure for Goat primary antibody using the Zymed kit with a DAB substrate instead of AEC.

## 2.0 Scope

SOP 5.10 is intended to cover all resources, personnel and equipment in the BCR laboratory.

## 3.0 Materials

No.	Name	Description	Storage Location
1.0	Peroxidase Quenching Solution	Staining Agent	Cold Storage (026-380C)
2.0	Primary Antibody	Scribble	Fridge #1 (026-328S-A)
3.0	Secondary Antibody Polyclonal Rabbit Anti-goat Immunoglobulins/ Biotinylated	Binds to Primary Antibody	Fridge #1 (026-328S-A)
4.0	Enzyme Conjugate	Reagent C from kit	Fridge #1 (026-328S-A)
5.0	1x PBS	Phosphate Buffering Saline	Cold Storage (026-380C)

## 4.0 Procedure

4.1 Deparaffine the slides cut from paraffin-embedded Tissue sections.

- 3x xylenes for >15 minutes each
- 2x 100% EtOH for 5 minutes each
- Wash in dH<sub>2</sub>O for > 15 minutes.




4.2 Antigen unmasking (Retrieve): Soak the slides in ready to use Citrate Buffer (pH 6.0) and heated at 98° C for 40 minutes and let it cool down for about 10 minutes (room temperature). Wash in running dH<sub>2</sub>O for > 15 minutes.

4.3 Submerge slides in Peroxidase Quenching Solution (cold 3% hydrogen peroxide in methanol) for 10 minutes.

4.4 Wash in 1x PBS for 15 minutes with several changes of PBS.

4.5 PRIMARY ANTIBODY: Tap off excess PBS and wipe slides bottom. Apply enough optimally diluted primary antibody (**1:100** dilution of **scribble** primary antibody in 1x PBS) to cover cells. Incubate 1 hour at RT. Wash in fresh 1x PBS for > 15 minutes with several changes of 1x PBS.

4.6 Apply enough SECONDARY ANTIBODY Polyclonal Rabbit Anti-goat Immunoglobulins/Biotinylated (DAKO, Cat E0466) (**1:200** dilution in 1x PBS) to completely cover the tissue. Incubate for 25 minutes.

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- 4.7 Wash in 1x PBS for 15 minutes with several changes of PBS.
- 4.8 Apply enough ENZYME CONJUGATE (Reagent C from the kit) to completely cover the tissue. Incubate for 10 minutes.
- 4.9 Wash in 1x PBS for 15 minutes with several changes of PBS.
- 4.10 Prepare DAB substrate and incubate slides with DAB substrate at room temperature for 10 minutes (need to observe under microscope).
- 4.11 Rinse well with distilled water.
- 4.12 HEMATOXYLIN COUNTERSTAIN (optional)
  - Immerse slides in a bath of hematoxylin. Length of incubation depends on the strength of hematoxylin used (1 minute).
  - Rinse gently in a distilled water bath for > 15 minutes.
  - Check the color under microscope.
- 4.13 MOUNTING
  - Specimens may be mounted and cover slipped with an aqueous-based mounting medium such as Glycerin (don't dehydrate the cells!)
  - Can store the slide up to one year.

### 5.0 Applicable References

### 6.0 Change Description

Revision	Date	Reference	Description of Change
1.0	7/17/12	CL	Added room locations