#### ration of Cells from Adult X. laevis

#### **Isolation of Peritoneal Leukocytes**

An example of a scatter profile for peritoneal leucocytes is shown in Figure 1B.

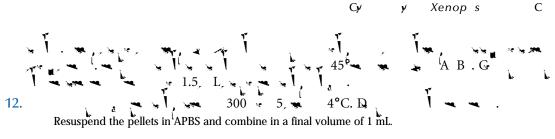
Cells that have taken up trypan blue are nonviable.

### Isolation of Blood Leukocytes

Centrifugation over the Percoll gradient should be performed with slow acceleration and a slow or no break to prevent disruption of the interphase.

# Isolation of Leukocytes from Lymphoid Tissue

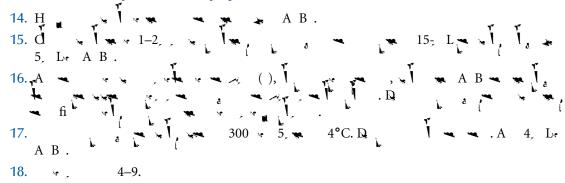
An example of a scatter profile for spleen cells is shown in Figure 1C.



**13.** № , 2.

To remove red blood cells from the sample, Percoll gradient separation (Steps 4-9) can be performed.

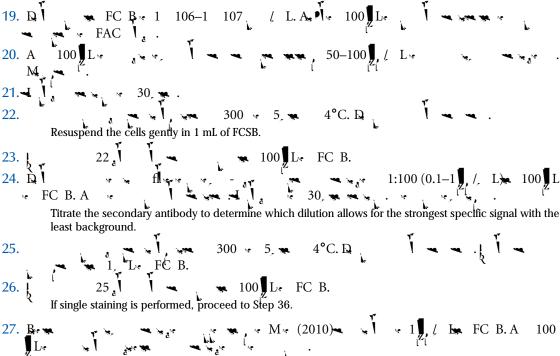
## Isolation of Leukocytes from Nonlymphoid Tissue



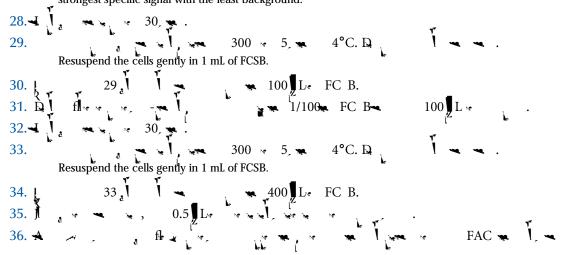
## **Staining Procedure**

Prepare the following controls: (1) unstained cells; (2) cells incubated with an isotype control secondary antibody alone; (3) cells incubated with fluorochrome-conjugated streptavidin alone; and (4) fluorochromes minus one control, i.e., prepare samples that have a combination of all fluorochromes used in the experiment except one. Depending on the number of fluorochromes used, the number of fluorochromes minus one control will vary. For example, in a three color staining protocol with anti-CD8-FITC, anti-CD4-PE, and anti-CD3-APC, three fluorochromes minus one control are needed (1. anti-CD8-FITC and anti-CD4-PE; 2. anti-CD8-FITC and anti-CD3-APC; and 3. anti-CD4-PE and anti-CD3-APC).

A schematic showing different staining procedures (i.e., indirect and direct staining) is shown in Figure 2.



Perform a titration curve to determine which dilution of the biotinylated primary antibody allows for the strongest specific signal with the least background.



### **DISCUSSION**





# Flow Cytometric Analysis of Xenopus Immune Cells

Eva-Stina Edholm

Cold Spring Harb Protoc; doi: 10.1101/pdb.prot097600 originally published online April 18, 2018

Email Alerting Service	Receive free email alerts when new articles cite this article - click here.
Subject Categories	Browse articles on similar topics from <i>Cold Spring Harbor Protocols</i> .  Antibodies (56 articles) Cell Biology, general (1323 articles) Flow Cytometry (40 articles) Immunology, general (112 articles) Immunostaining (113 articles) Immunostaining Cells (38 articles) Immunostaining, general (75 articles) Xenopus (146 articles)

To subscribe to Cold Spring Harbor Protocols go to: http://cshprotocols.cshlp.org/subscriptions