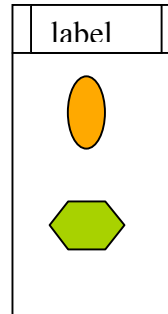


## Immunohistochemistry basic plan:

Slides should have sections expected to be positive and expected negative on same slide

### Frozen sections

---Air dry, freeze  
or use today or tomorrow



**Paraffin sections**  
See —different  
protocol below

---Make washing buffer: PBS or PBST (PBS with 0.1% Tween  
---Make Blocking buffer: 0.5% fish gelatin in washing buffer  
Or 1% BSA in washing buffer  
---Set up humid chamber using 250 ml of washing buffer

---Fixation needed?  
---Endogenous peroxidase removal if using HRP system  
---Endogenous biotin removal if using biotin labels

### **Set 1**

Unfixed  
overlay with blocking buffer  
Remove endogenous  
Peroxidase, Biotin

### **Set 2**

Acetone fixed (Fisher cat# A16-4)  
10 minutes at room temperature  
Wash immediately in buffer  
Overlay with blocking buffer  
Remove endogenous Peroxidase/Biotin

### **Set 3 -----fix later**

Overlay with blocking buffer  
Remove endogenous Peroxidase/Biotin  
---Fix by immersion in 10% NBF  
(Fisher cat# SF93-4)  
--for 30 minutes in fume hood  
at room temperature  
--wash in washing buffer

Overlay slides, one at-a-time  
in humid chamber with  
--1--blocking buffer  
--2--non-specific IgG  
--3--positive control Ig  
--4--primary antibody at dilution 1  
--5--primary antibody at dilution 2  
--6--primary antibody at dilution 3  
--7--Pre-immune at dilution 1  
--8--Pre-immune at dilution 2  
--9--Pre-immune at dilution 3

Incubate primary reagents in humid  
chamber for specified amount of time,  
followed by 3 buffer washes

Incubate with secondary reagent,  
Followed by 3 buffer washes  
Incubate with tertiary if needed  
Followed by 3 buffer washes  
Substrate and nuclear counterstain if needed

**Paraffin sections:** deparaffinize, rehydrate  
and wash with buffer

Divide into 5 sets, to test optimal  
conditions—may do this in 2 batches  
--set 1--Untreated,  
--set 2--Proteinase K treated,  
--set 3--Heat in citrate buffer pH 6,  
--set 4--Heat in Tris buffer pH 9  
--set 5-- Heat in EDTA buffer pH 8

**Paraffin sections:** deparaffinize, rehydrate  
and wash with buffer

Based on results from first couple of trials,  
the epitope in the section may need to be  
revealed with an extra enhancement using  
the Biotinyl tyramide reagent