

## Product Information

### AEC Chromogen Kit

Stock No. **AEC101**

#### REAGENTS PROVIDED

##### Vial 1, Acetate Buffer:

Acetate buffer, 2.5 M, pH 5.0.

##### Vial 2, AEC Chromogen:

3-amino-9-ethylcarbazole (AEC) in  
N,N-dimethylformamide

##### Vial 3, Hydrogen Peroxide:

3% H<sub>2</sub>O<sub>2</sub> in deionized water.

#### INSTRUCTIONS FOR USE

##### Immunohistochemistry

After the application of a peroxidase reagent wash slides and carefully wipe around tissue section. The following steps are carried out at room temperature.

1. Prepare AEC Substrate Reagent in test tube or mixing vial shortly before incubation.  
In order add:
  - 4 ml deionized water
  - 2 drops Acetate Buffer (Vial 1)
  - 1 drop AEC Chromogen (Vial 2)
  - 1 drop 3% hydrogen peroxide (vial 3)
2. Apply 2 drops AEC Substrate Reagent to each slide, incubate up to 10 minutes. Check slide microscopically for adequate chromogen development.
3. When sufficient staining has been achieved rinse slides in deionized water for 5 minutes. Carefully wipe slide around section.

NOTE: Do not use alcohol-containing solutions for counterstaining, since the AEC stain formed by this method is soluble in organic solvents.

##### Expected Observations

Cytoplasm of positive cells will be rose-red to brownish-red.

##### Immunoblot or Dot Blot

After the incubation with a peroxidase reagent wash and rinse strips. The following steps are carried out at room temperature.

1. Prepare AEC Substrate Reagent in test tube or petri dish shortly before incubation.  
In order add:
  - 4 ml deionized water
  - 2 drops Acetate Buffer (Vial 1)
  - 1 drop AEC Chromogen (Vial 2)
  - 1 drop 3% hydrogen peroxide (vial 3)
2. Add strips to the AEC Substrate Reagent. Incubate for 5-10 minutes until clear red insoluble signal is obtained for the positive control.
3. Wash the strips in several changes of deionized water.

##### Expected Observations

Rose-red insoluble precipitates in form of bands or dots. The nitrocellulose strip will normally have a slight reddish background.

##### **Storage**

Store at 2-8 °C.

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