



**Liquid DAB Substrate Kit (20x) for Immunohistochemistry**  
(3,3'-Diaminobenzidine Tetrahydrochloride Substrate kit for Horseradish Peroxidase)

Storage: 4-8°C
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Catalog No.:	C02-12	12ml	<input type="checkbox"/>
	C02-100	100ml	<input type="checkbox"/>

**Intended Use:**

3,3'-Diaminobenzidine (DAB) is the most commonly used precipitating substrate for peroxidase. DAB substrate will develop a brown colored deposit upon reacting with peroxidase. DAB incubation on slides is about 5 minutes in an enclosed chamber at room temperature. The color development may be carefully monitored under a microscope. After the appropriate color is observed, gently rinse the slides under tap water for 1-2 minutes to remove excess DAB substrate. The specimen may be dehydrated and permanently mounted (O-Mount, catalog # E02-18) before coverslip. All three components in DAB kit are provided in 20X concentrated form, which gives laboratories the advantage of easy storage and less shipping cost.

**Kit Components:**

Three components are supplied as concentrated form (20x).

Product	Catalog No.	Reagent 1 DAB substrate buffer (20x)	Reagent 2 DAB Chromogen (20x)	Reagent 3 Hydrogen peroxide (20x)
DAB kit 12ml (2400 slides)	C02-12	12ml	12ml	12ml
DAB kit 100ml (20,000 slides)	C02-100	100ml	100ml	100ml

**Recommended Protocol:**

1. Prepared a 1ml of distilled water. Adding 1 drop of DAB substrate buffer (Reagent 1) in 1ml of distilled water. Mix well.
2. Add 1 drops of DAB Chromogen (Reagent 2) and 1 drop of concentrated Hydrogen Peroxide (Reagent 3) to the diluted Reagent 1. Mix well.
3. Add about 100ul (2 drops) of the pre-diluted DAB mixture on to the slides and incubate in an enclosed chamber at room temperature about 5 minutes. When appropriate color is developed, rinse under tap water gently for about 1-2 minutes.
4. Keep away from light during operation and use the prepared DAB solution within 5 hours.

**Related Products:**

Product	Catalog No.	Size
AEC kit (20x concentrate)	C01-12	12ml
DAB+ Kit (2-component DAB)	C09-12 / C09-100	12ml +240ml / 100ml + 2 L
BCIP/NBT Kit (RTU)	C05-100 / C05-18	100ml / 18ml
Fast Red Kit (tablets and ready-to-use substrate)	C03-60	12 Tab + 60ml
AP-Red+ Kit (40x concentrate)	C04-8	8ml
GB-Mount (Aqueous)	E01-18	18ml
O-Mount (Organic)	E02-18	18ml
Simpo-Mount (Aqueous)	E03-100 / E03-18	100ml / 18ml
ISH Mount (Aqueous) for in situ hybridization	E21-100	100ml
Fluorescent Mounting Medium	E18-100 / E18-18	100ml / 18ml
Fluorescent Mounting Medium with DAPI	E19-100 / E19-18	100ml / 18ml
Fluorescent Mounting Medium with PI	E20-100 / E20-18	100ml / 18ml

**Precautions:**

DAB may be carcinogenic. Please wear gloves and take other necessary precautions.

**Remarks:**

For research use only.