

Chromogens & Substrates AEC, DAB, DAB+, TMB & DAB Enhancer

Intended Use:

This product enhances regular DAB stains. It will darken the color of DAB on tissue slides and produce a darker brown colored deposit

Enzyme	Chromogen/Substrates	Color
Peroxidase	AEC	Red
Peroxidase	DAB	Brown
Peroxidase	DAB+	Brown
Peroxidase	TMB (for microwell use)	Blue
Peroxidase	DAB and DAB Enhancer	Darkeer Brown

AEC Substrate system

Aminoethyl carbazole (AEC) is an alcohol soluble chromogen. Under the presence of peroxidase, it will generate a reddish deposit at the reaction location on tissue sections. The AEC kit contains substrate buffer, AEC chromogen and H₂O₂ substrate. All reagents are provided at 20x concentration liquid form. It requires a simple dilution.

DAB and Enhancer

3,3' Diaminobenzidine (DAB) is the most commonly used chromogen for Immunohistochemistry staining. In the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. GBI DAB kits contain three components: DAB substrate buffer, DAB chromogen and Hydrogen Peroxide. All buffers are supplied in 20x concentration. It requires a simple dilution.

DAB enhancer is supplied at 20x concentrated or ready-to-use solution. It is specially formulated to enhance DAB staining on tissue section. It will increase the sensitivity of DAB on stained tissue. 20x concentrate format require simple dilution. Pictures on the upper-left compares mouse anti chromogranin A stained pancreas with and without DAB enhancer.

DAB+ and TMB

DAB+ is designed in a two-component format. It is more sensitive than regular DAB. It shows crystal sharp picture upon react with HRP enzyme. Its sensitivity is equal to leading company's product.

TMB is one component ready-to-use microwell substrate solution. Blue reaction product is obtained when react with peroxidase. It is used for microwell ONLY. It is NOT recommended for membrane or immunohistochemistry applications.

Product Name	Catalogue No	Size	Good for slides
DAB Kit (20x)	C02-12	12ml	2400
DAB bulk Kit (20x)	C02-100	100ml	20,000
DAB+ (2-component) kit	C09-12	12ml + 240ml	2000
DAB+ (2-component) Bulk kit	C09-100	100ml + 2 L	20,000
DAB Enhancer (RTU)	C06-500 / C06-1L	500ml / 1L	5,000 / 10,000
DAB Enhancer (20x)	C07-25	25ml	5,000
TMB (RTU)	C08-1L	1L	For microwell

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