

Apr 08, 2020

Version 4

DAB Solutions V.4

DOI

<https://dx.doi.org/10.17504/protocols.io.betzjep6>

Allen Institute for Brain Science¹

¹Allen Institute

BICCN / BICAN

Allen Institute for Brain S...



Dillan Brown

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.betzjep6>

Protocol Citation: Allen Institute for Brain Science 2020. DAB Solutions. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.betzjep6>

License: This is an open access protocol distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this protocol and it's working

Created: April 08, 2020

Last Modified: April 08, 2020

Protocol Integer ID: 35417

Keywords: DAB, biocytin, diaminobenzidine, staining, immunohistochemical, RP0168, acetylcholinesterase, dab for immunohistochemical staining, immunohistochemical staining, dab for biocytin, hydrogen peroxide oxidation of substrate dab, dab for acetylcholinesterase, peroxidase, peroxidase enzyme, presence of peroxidase enzyme, chromogen for histological staining, histological staining, hydrogen peroxide oxidation, substrate dab, different formulations of dab, acetylcholinesterase, enzyme, dab solution, dab, insoluble in alcohol, brown precipitate,

Abstract

3, 3' Diaminobenzidine (DAB) is a commonly used chromogen for histological staining. In the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol and xylene. Peroxidase catalyzes hydrogen peroxide oxidation of substrate DAB. This SOP provides instructions to prepare four different formulations of DAB. DAB for Immunohistochemical staining (IHC), DAB for Acetylcholinesterase (AChE) Staining, Nickel Enhanced DAB for Biocytin staining, and DAB for Biocytin staining.

Note: Research reported in this publication was supported by the National Institute Of Mental Health of the National Institutes of Health under Award Number U19MH114830. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health.

Attachments



[RP0168_DAB-Solution....](#)

49KB

