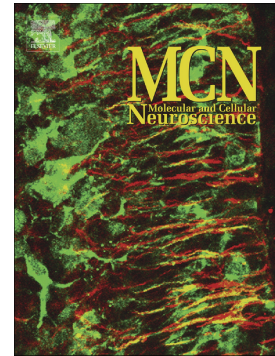


## Accepted Manuscript

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PII: S1044-7431(17)30126-4  
DOI: doi: [10.1016/j.mcn.2017.07.007](https://doi.org/10.1016/j.mcn.2017.07.007)  
Reference: YMCNE 3217

To appear in: *Molecular and Cellular Neuroscience*

Received date: 7 April 2017  
Revised date: 24 July 2017  
Accepted date: 28 July 2017

Please cite this article as: Christine Salaun, Louise Ritchie, Jennifer Greaves, Trevor J. Bushell, Luke H. Chamberlain, The C-terminal domain of zDHHC2 contains distinct sorting signals that regulate intracellular localisation in neurons and neuroendocrine cells, *Molecular and Cellular Neuroscience* (2017), doi: [10.1016/j.mcn.2017.07.007](https://doi.org/10.1016/j.mcn.2017.07.007)

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# The C-terminal domain of zDHHC2 contains distinct sorting signals that regulate intracellular localisation in neurons and neuroendocrine cells

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**Running Title:** Sorting signals in zDHHC2

**Keywords:** Intracellular Trafficking, Membrane Recycling, Membrane Trafficking, Post Translational Modification, Protein Palmitoylation, zDHHC enzymes

**Abbreviations:** PSD, post synaptic density; PSD95, post synaptic density protein 95; AKAP79/150, A kinase anchoring protein 79/150; GABAR, gamma-aminobutyric acid A receptor; AMPAR, alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid receptor; NMDAR, N-methyl-D-aspartic acid receptor; GRIP1b, glutamate receptor interacting protein 1b; TTX, Tetrodotoxin; SNARE, soluble N-ethylmaleimide sensitive factor attachment protein receptor; SNAP25, Synaptosome associated protein 25; AP2, adaptor protein 2; cLTP, chemically induced long-term potentiation; TfR, transferrin receptor

## ABSTRACT

The S-acyltransferase zDHHC2 mediates dynamic S-acylation of PSD95 and AKAP79/150, which impacts synaptic targeting of AMPA receptors. zDHHC2 is responsive to synaptic activity and

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