British Journal of Pharmacology



# DECLARATION

# Declaration of transparency and scientific rigour: checklist for immunoblotting and immunohistochemistry

This checklist for immunoblotting and immunohistochemistry provides guidance for transparent reporting and scientific rigour of preclinical research as set out in *Goals and practicalities of immunoblotting and immunohistochemistry: A guide for submission to the British Journal of Pharmacology* (Alexander *et al.*, 2018). This checklist is intended as a guide for submission to the *British Journal of Pharmacology.*

| Criteria | Number | Issue | Where to place information |
|---|---|---|---|
| Antibodies | For any antibody (including secondary antibodies) used, the Methods section should include the following: | | Methods |
| | 1a | The commercial (or other) source. | Methods |
| | 1b | The species in which the antibody was raised, catalogue and batch/lot numbers. | Methods |
| | 1c | The epitope against which it was raised. | Methods |
| | 1d | The isotype (IgG, IgM, IgY, *etc*) and clone numbers (if applicable). | Methods |
| | 1e | When available, RRID. | Methods |
| | 1f | The diluting buffer, the final antibody dilution and number of times solutions have been re-used. | Methods |
| Controls | 2 | Positive and negative controls should be used, as much as possible. | Results |
| Images for review | 3 | Full uncropped images should be made available to reviewers and editors. | Results |
| Presentation | 4 | Separate immunoblots should NEVER be merged in figures. | Results |
| Normalisation | 5 | For Western blotting normalisation to the loading control should be done only if the bands for the target protein and the loading control are obtained from the same blot. | Results |
| Quantitation | 6 | Quantitation of band density can only be conducted on analysis within the linear range. | Results |
| Statistical comparisons | 7 | Statistical comparisons should only be carried out between bands on the same blot. | Results |
| Blinding | 8 | Full details of blinding for analysis of images should be provided. | Methods |

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