Lindberg Lab Antisera Descriptions (8/05, IL)

The first number (bolded) is the rabbit number; on each tube, it will be followed by a B for Bleed, then the second number, which is variable since it is the bleed number. F denotes the final bleed. All numbered antisera (except numbers 45 and 46) are raised to peptides 10-15 residues in length conjugated to keyhole limpet hemocyanin (from Pierce) with ECDI (except 45 and 46).

Please look up the full reference (in the CV listed on this website) and cite when using one of these antisera. Thanks!

1 & 2: Mouse PC1, mature N-terminus. 2 is most commonly used (also almost out)- Good for immunoppt and Western blotting; ICC; RIA titer over a million. Reference Vindrola and Lindberg Mol. Endo. 1992 and Hornby et al Neuroendocrinol. 1993 (for ICC). Affinity Bioreagents carries a similar antiserum, tested by our lab.

3: Mouse PC1 C-terminus- this one does not see the 66 kDa form. Vindrola and Lindberg Mol. Endo. 1992 and Hornby et al Neuroendocrinol. 1993 (for ICC).

4 & 5: Mouse PC2 C-terminus. 4 was most commonly used. Supplanted by 18 because we ran out. Good for immunoppt, Western blotting and ICC. Reference Shen et al, 1993. Note that Affinity Bioreagents carries a similar antiserum, tested by our lab.

6 & 7: Mouse PC2 mature N-terminus. 7 is most commonly used. Reference Shen et al, 1993.

12 &13: same 7B2 epitope originally used by the Seidah group (internal, 21 kDa). 13 most commonly used. All vertebrate species. Blots recombinant stuff, but not as well as the Martens monoclonal. Good for RIA, Immunoppt. Reference Zhu and Lindberg 1994.


16 & 17: Human CT peptide1-16. Requires CPB removal of basic residues to see immunoreactivity! Prefers human, but works with mouse. Good for RIA. Reference Zhu et al 1996 PNAS.

18, 19: New mouse PC2 antiserum. 18 most commonly used. See antisera 4 and 5 for characteristics. Reference Muller et al JCB 1997.


26 & 27: mouse PC2 propeptide. 26 most commonly used. Good for RIA and immunoppt. Reference Muller et al 2000 JBC.


37 & 38: QERAER antiserum to mouse proSAAS. 38 most commonly used. Blots poorly and does not immunoppt; not good for ICC. Reference Sayah 2000 J. Neurochem.

39 & 40: LENP antiserum to mouse proSAAS CT peptide. 40 most commonly used. Works for immunoppt but not great for blotting of endogenous stuff (probably due to removal of CT peptide?). Not good for ICC. Reference Sayah 2000 J. Neurochem paper

41 & 42: raised to ACTH 1-18. Used for immunoppt to replace antiserum JH93 of Dick Mains. 41 is used most. Recognizes POMC, ACTH and cleaved ACTH (alpha MSH). Reference Fortenberry et al, JBC, 2002
43 & 44: N-terminus of mouse SAAS (ie the SAAS peptide itself). Not good for ICC. Not published.
45 & 46: raised to recombinant His-tagged 21 kDa mouse proSAAS. Good for Western, IP and ICC. Not published yet.
47, 48: polyarginine antisera (raised to D9R coupled to KLH). Not published.

OLDER ENKEPHALIN ANTISERA:


Betty: raised to Met-enk coupled to hemocyanin with ECDI. A low titer but reasonably sensitive Met-enk antiserum for RIA. Not published.
