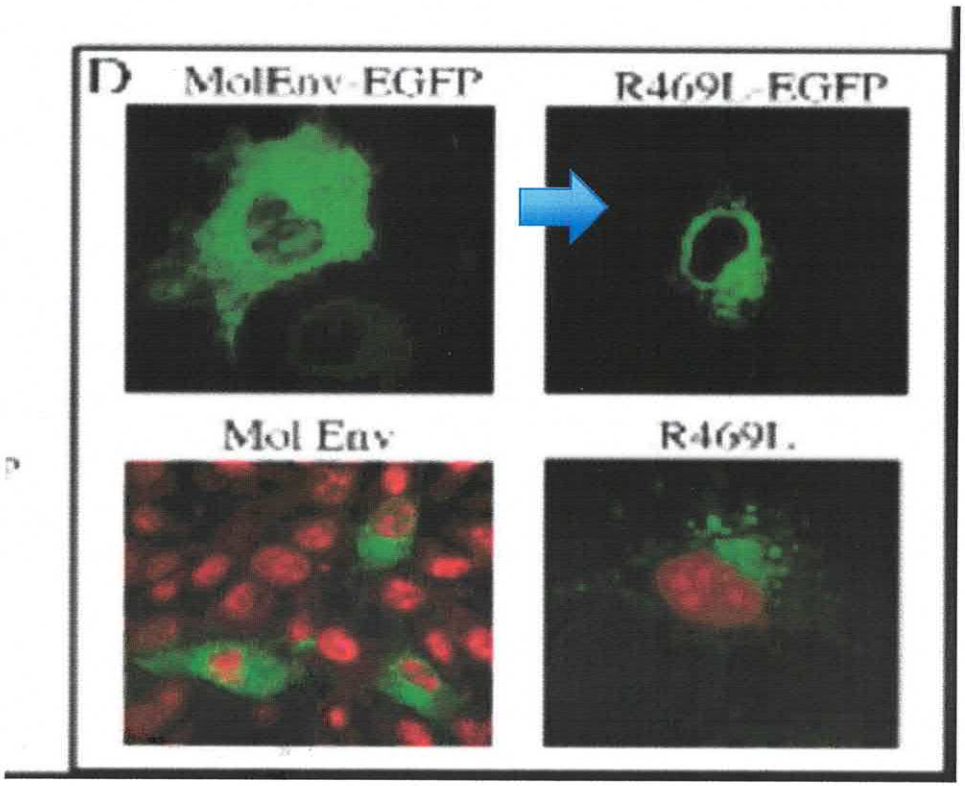
Evidence of research irregulaties that raise question of misconduct

Data manipulation by David Sanders

Case 1

Virology; 2010, 405, 214-224; Apte S and Sanders DA
Effect of retroviral envelope protein cleavage upon trafficking, incorporation, and membrane fusion

Figure 5D, 2nd panel (arrow) – listed from R469L-EGFP cells



Case 1

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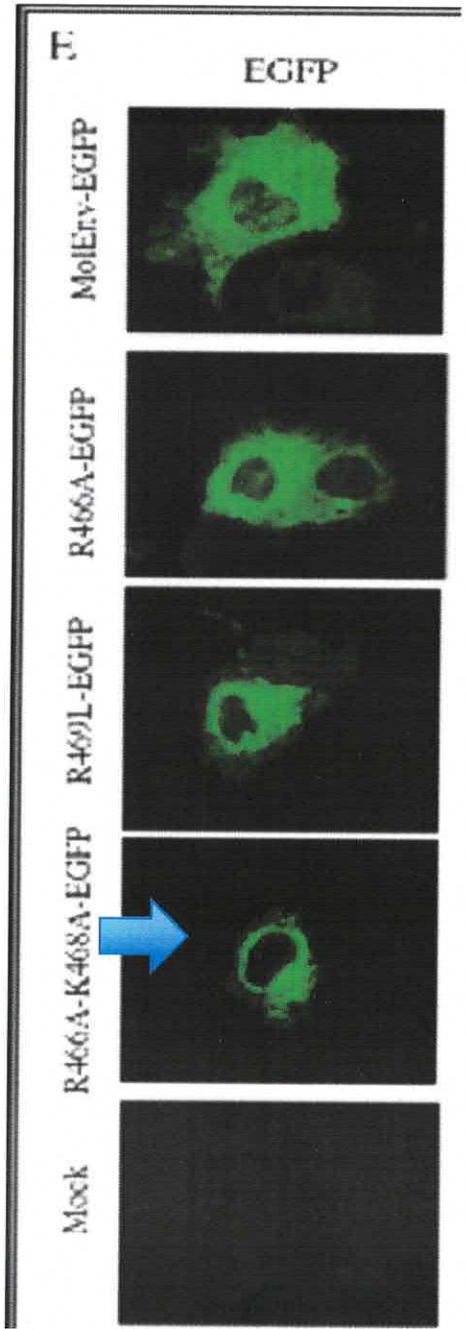
Figure 5E, 4th panel (arrow) – listed from different cells (R466A-K468A-EGFP cells) but identical to image shown in prior image – this is not possible



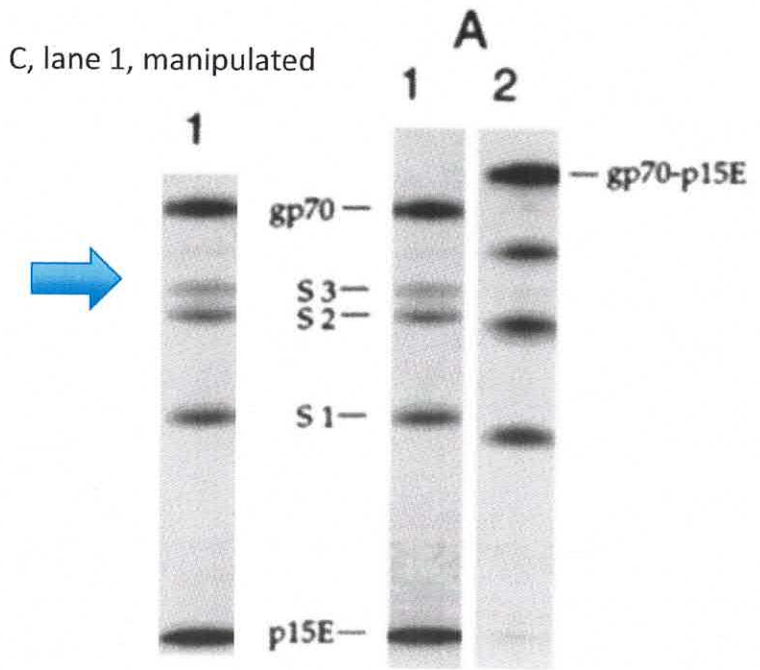
Case 2

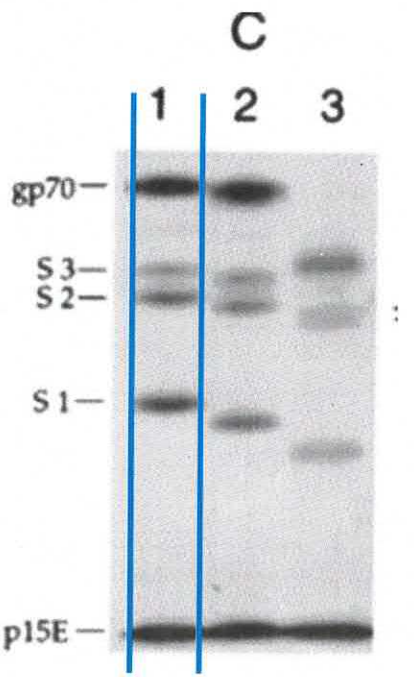
J Virology; 1997, 71, 8073-7; Pinter A, Kopelman R, Li, Z, Kayman S, and Sanders DA
Localization of the Labile Disulfide Bond between SU and TM of the Murine Leukemia Virus Envelope Protein Complex to a Highly Conserved CWLC Motif in SU That Resembles the Active-Site Sequence of Thiol-Disulfide Exchange Enzymes

Figure 2A and Figure 2C

If you cut out lane 1 from panel C, removing part of each band (two blue lines), and superimpose it on panel A lane 1 (arrow), one sees that these are the same, with a change of contrast

C, lane 1, manipulated





Case 2

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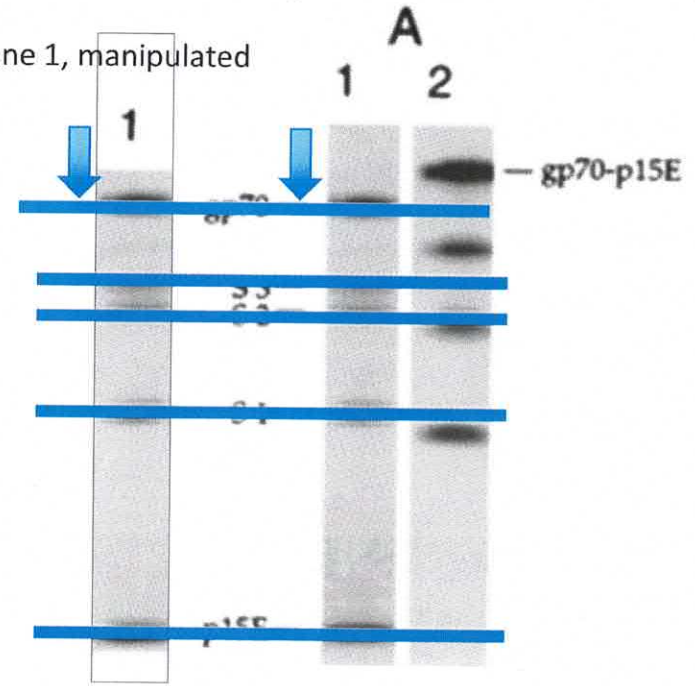
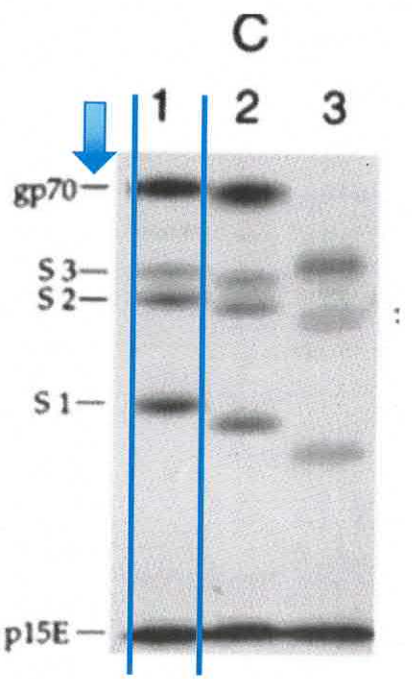
Figure 2A and Figure 2C

Also note when comparing C1 and A1, the bands are in the same position (lines) and A1 has a longer distance from the top to the first band compared to C1 (arrows). If these were two different experiments, then the bands would be more separate in A1 since the gel in A1 ran longer

C, lane 1, manipulated





Case 2

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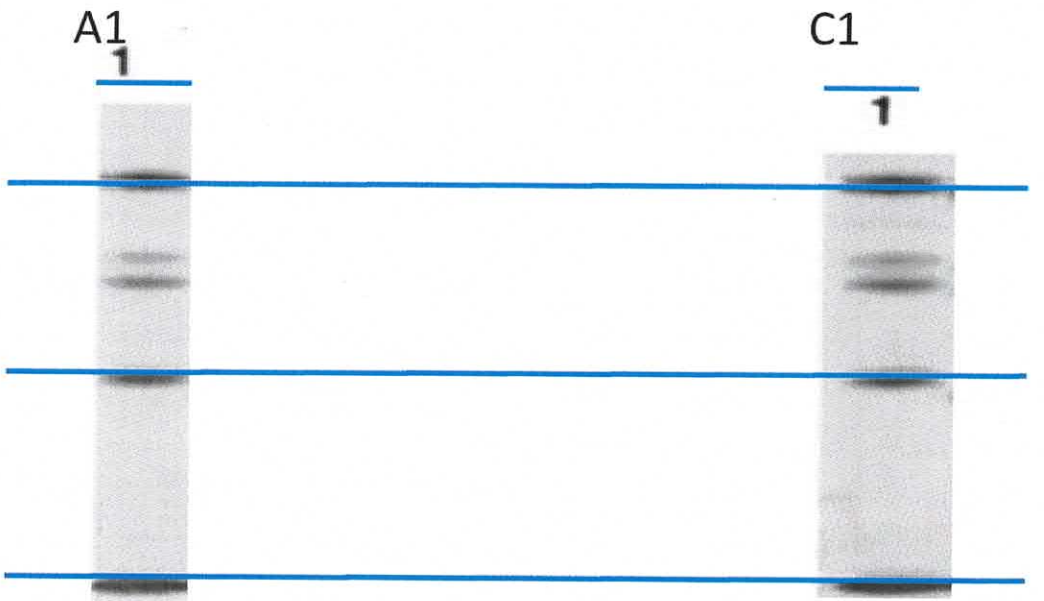
Figure 2A and Figure 2C

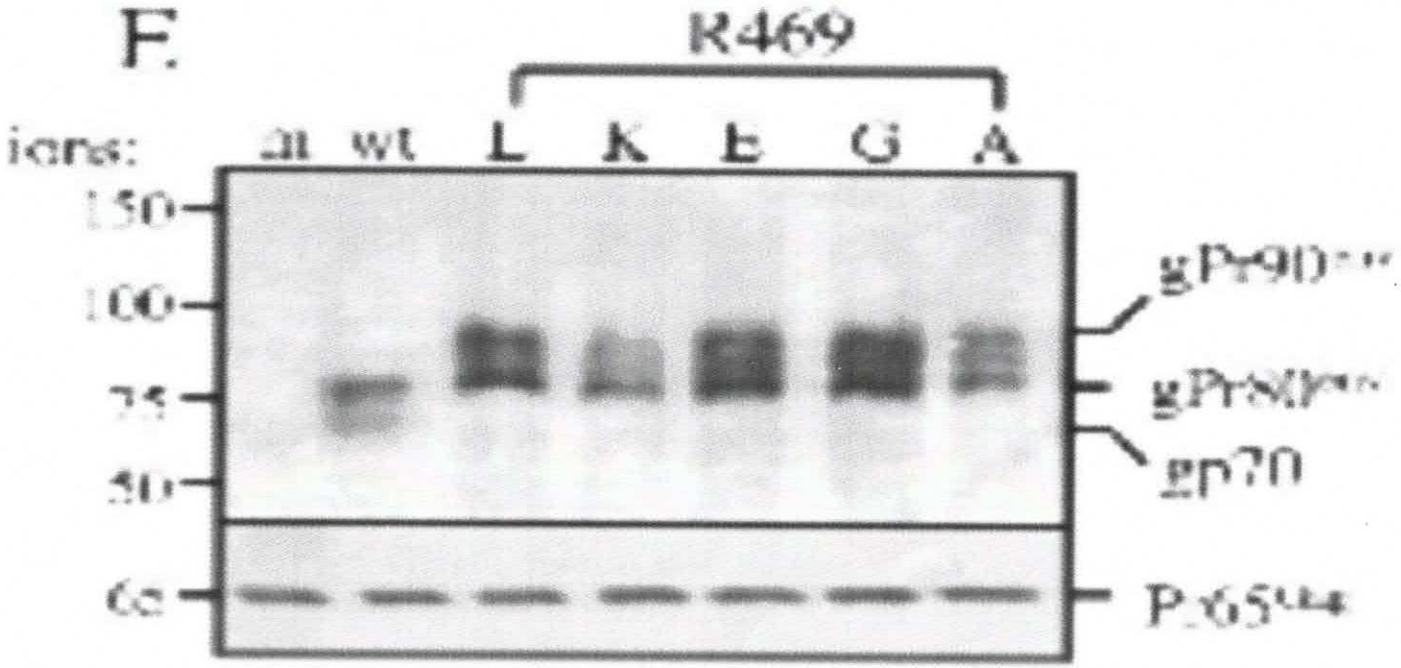
Finally, note that A1 is clearly thinner than C1, meaning it was manipulated from a larger lane (line is same size)



Case 3

Virology; 2010, 405, 214-224; Apte S and Sanders DA
Effect of retroviral envelope protein cleavage upon trafficking, incorporation, and membrane fusion

Figure 1 E. Note that the Pr65 bottom bands do not match up with the corresponding upper parts of the bands (next image with lines)

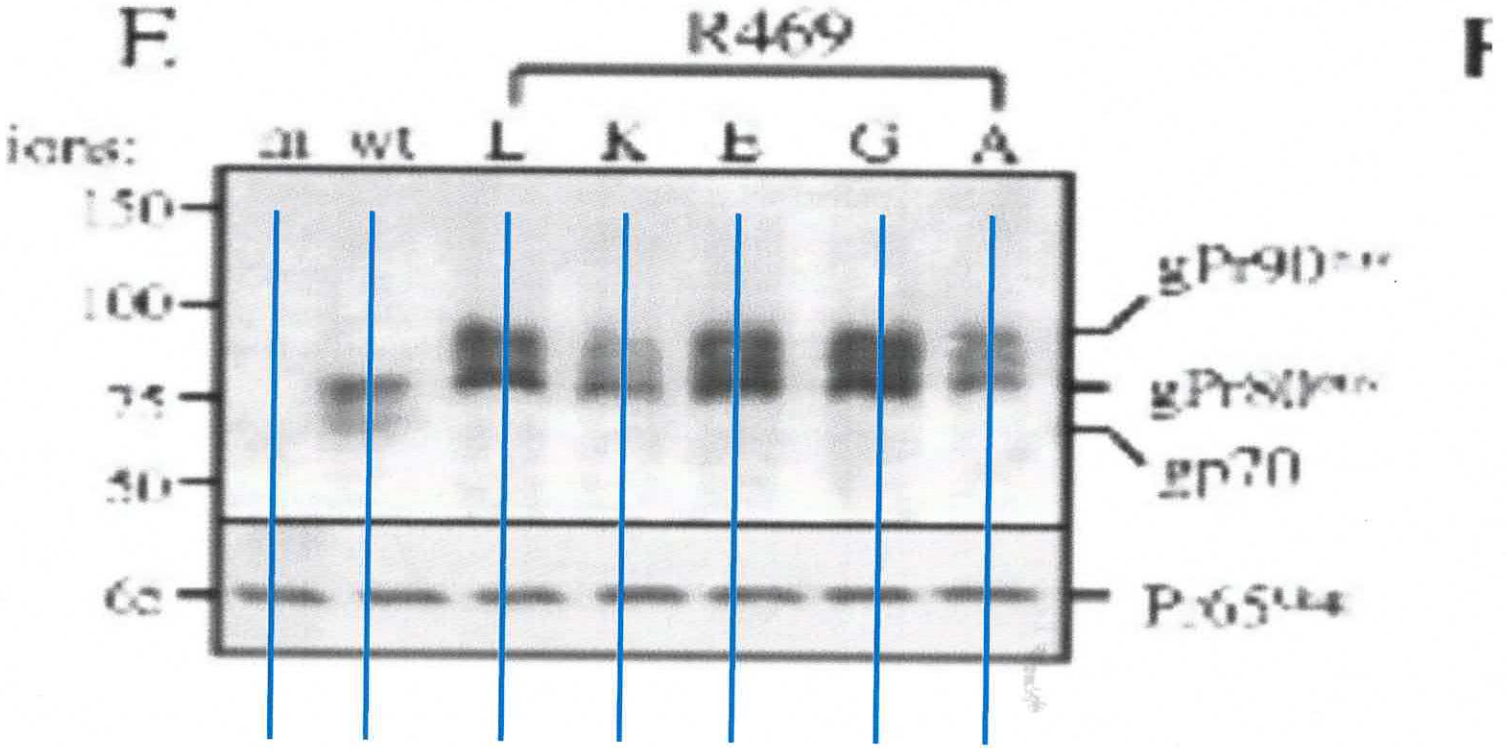


Case 3

Virology; 2010, 405, 214-224; Apte S and Sanders DA

Effect of retroviral envelope protein cleavage upon trafficking, incorporation, and membrane fusion

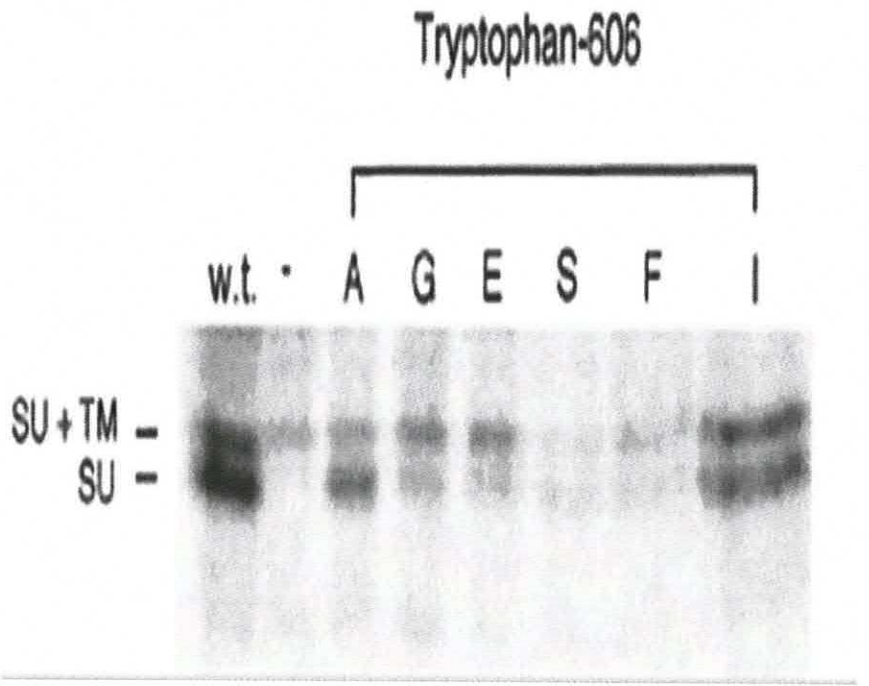
Figure 1 E. Note that the Pr65 bottom bands do not match up with the corresponding upper parts of the bands (next image with lines). These came from a different experiment



Case 4. Figure 2. Lane I bottom image.

Gwen M. Taylor, and David Avram Sanders Mol. Biol. Cell 1999;10:2803-2815 The Role of the Membrane-spanning Domain Sequence in Glycoprotein-mediated Membrane Fusion

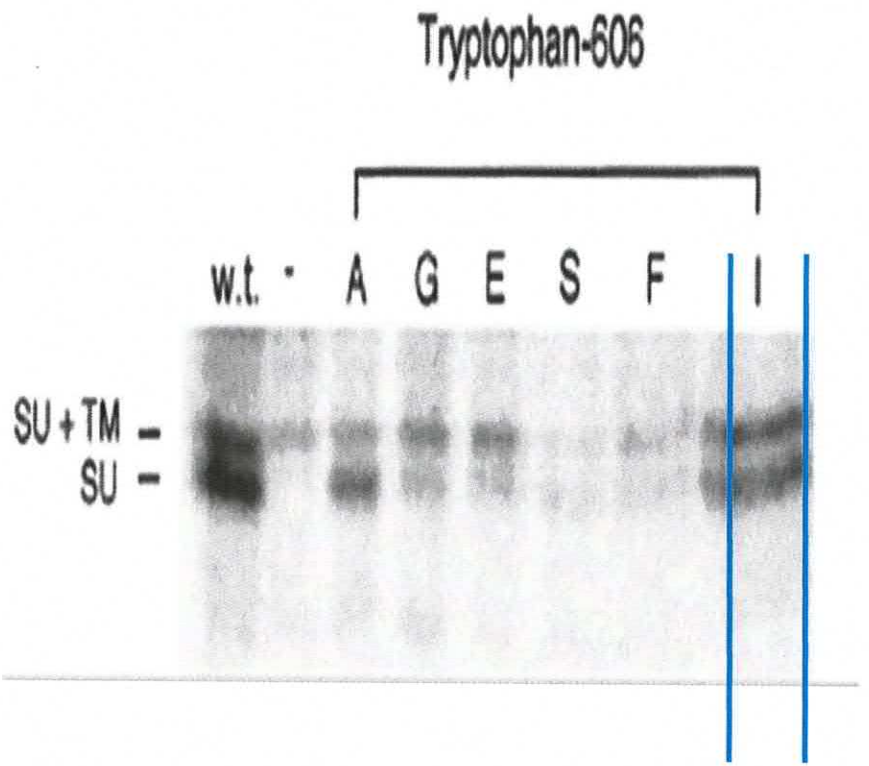
Note that lane I actually has two images – one is superimposed on the other (see next two images)



Case 4. Figure 2. Lane I bottom image.

Gwen M. Taylor, and David Avram Sanders Mol. Biol. Cell 1999;10:2803-2815 The Role of the Membrane-spanning Domain Sequence in Glycoprotein-mediated Membrane Fusion

Note that lane I actually has two images – one is superimposed on the other (lines show one band pasted onto the image of another band in the figure)



Note that lane I has two bands – one is marked by the long arrow and the other is marked by two lines that are the same size (1.35 inches) as lane F. Thus, the authors took the band that is 1.35 inches and was superimposed on some other band. Obviously, this is manipulation of data (falsification of data)