

27. The assay of claim 2, wherein the antibody is detected using low-resolution immunofluorescence imaging.

28. The assay of claim 2, wherein the antibody is detected by at least one primary screen comprising of a low-resolution BAGS immunofluorescence assay, followed by at least one secondary screen comprising of a high-resolution BAGS immunofluorescence assay.

29. The assay of claim 2, wherein a normalized response is used to detect a decreased antibody signal.

30. The assay of claim 29, wherein the normalized response is calculated as a ratio between levels of full-length substrate and total substrate.

31. The assay of claim 2, wherein the substrate is an intact peptide or fragment thereof selected from the group consisting of SNAP-25, a SNAP-25 analog, a SNAP-25 isoform;

wherein the said antibody binds selectively to a peptide having a sequence selected from the group consisting of:

RIDEANQRATKMLGSG; (SEQ ID NO: 1)

DEANQRATKMLGSG;
and, (SEQ ID NO: 2)

RIDEANQRATKMLG; (SEQ ID NO: 3)

and further wherein the antibody is detected using immunofluorescence imaging.

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