Supporting Information

**Graphene Oxide based Fluorescence Sensor for Cucurbit[7]uril**

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**Figure S1:** Powder XRD spectrum of Graphene oxide

**Figure S2:** FTIR comparison spectrum of RhB with RhBGO
Figure S3: FTIR spectrum of RhBGO

Figure S4: Particle size analyzer result of RhBGO (before the addition of CB[7])

Figure S5: Raman spectra of RhBGO
Figure S6: Particle size analyzer result of RhBGO after the addition of CB[7]

Figure S7: Selectivity of CB[7] with respect to β-CD (left) and selectivity of CB[7] with respect to CB[n] (n = 5-7) (right) at neutral conditions.

Figure S8: Naked eye detection method of CB[7] with RhBGO in the absence (left) and in the presence (right) 1 M HCl acid
Figure S9: fluorescence response of CB[7] (1 x 10^{-4} M)@RhBGO without acid (red) and with acid (1 M HCl) (blue)