Supporting Information:

Probing Excitons in Transition Metal Dichalcogenides by Drude-Like Exciton Intraband Absorption

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Supplementary Figures

Figure S1: (a) Optical microscope image (reflection geometry) of the monolayer WS$_2$ sample on PDMS substrate. The area enclosed by the dashed line is identified as monolayer. (b) Contrast of the Green channel contrast along the white line in (a). The contrast of monolayer WS$_2$ on a thick and transparent substrate is about 8%.

Figure S2: Photoluminescence spectrum of the WS$_2$ monolayer region under the excitation of a 405-nm continuous-wave diode laser.
Figure S3: Microscope image of the bulk WS$_2$ sample (yellowish part) used for the experiment (transmission geometry).

Figure S4: Experiment setup of the differential transmission measurements based on exciton intraband absorption.