Supplemental Figure 2.

Effect of topical 0.25% ketotifen fumarate on 48/80-induced mast cell degranulation.

Representative high magnification images of the choroidal flat mounts stained with NSE for MC degranulation in the gel side among the three groups treated with 0.25% KTF or PBS at 1wk (A-C) and 2wks (D-F) post implantation. Scale bar: 100μm. MCs are significantly degranulated in 48/80+PBS choroid compared to Empty+KTF and 48/80+KTF. The bar graphs showing the total number of MCs in the gel and non-gel side of the choroid in the rats treated with topical 0.25% KTF or PBS at 1wk (G) and 2wks (H). There was no significant difference in the total number of MCs among the three groups at 1wk and 2wks. The percentage of MC degranulation in the gel and non-gel side of the choroid is shown at 1wk (I) and 2wks (J). The topical 0.25% KTF treatment prevented MC degranulation at 1wk and 2wks. (n=6 at 1wk, and n=3 at 2wks per group). **P<0.01, ***P<0.001, one-way ANOVA with Tukey post hoc test.