



## *Biotinylated Anti-human Olfactomedin-2/Noelin-2 Antibody*

### ORDERING INFORMATION

**Catalog Number:** BAF5614

**Lot Number:** CCVH01

**Size:** 50 µg

**Formulation:** 0.2 µm filtered solution in PBS with BSA

**Storage:** -20° C

**Reconstitution:** sterile 0.1% BSA in TBS

**Specificity:** human OLFM2

**Immunogen:** CHO cell-derived rhOLFM2

**Ig Type:** sheep IgG

**Application:** Western blot

### ***Background***

Olfactomedin-2 (also Noelin-2) is a 50 kDa (predicted), secreted member of the noelin family of proteins. Little is known about Olfactomedin-2. It is believed that it promotes neurogenesis but not neural maintenance. Mature human Olfactomedin-2 is 434 amino acids (aa) in length. It contains two coiled-coil regions (aa 58 - 85 and 136 - 193) and an olfactomedin-like domain (aa 194 - 446). It is likely that Olfactomedin-2 heterodimerizes with other noelin family members. No alternate splice variants have been reported for Olfactomedin-2. Over aa 21 - 454, human Olfactomedin-2 shares 97% aa identity with mouse Olfactomedin-2.

### ***Preparation***

Produced in sheep immunized with purified, CHO cell-derived, recombinant human Olfactomedin-2 (rhOLFM-2; aa 21 - 454; Accession # O95897). Human OLFM2 specific IgG was purified by human OLFM2 affinity chromatography and then biotinylated.

### ***Formulation***

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

### ***Reconstitution***

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

### ***Storage***

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### ***Specificity***

This antibody has been selected for use as a detection antibody in human OLFM2 Western blots.

### ***Application***

**Western blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human OLFM2. The detection limit for rhOLFM2 is approximately 5 ng/lane under non-reducing and reducing conditions, respectively. In this format, this antibody shows approximately 10% cross-reactivity with rmOLFM1 and less than 5% cross-reactivity rhOLFM4 and rmOLFML3.

**Optimal dilutions should be determined by each laboratory for each application.**