

Product Data Sheet

Purified anti-FliC (Flagellin)

Catalog # / Size: 629701 / 25 µg
629702 / 100 µg

Clone: FLIC-1

Isotype: Mouse IgG1, κ

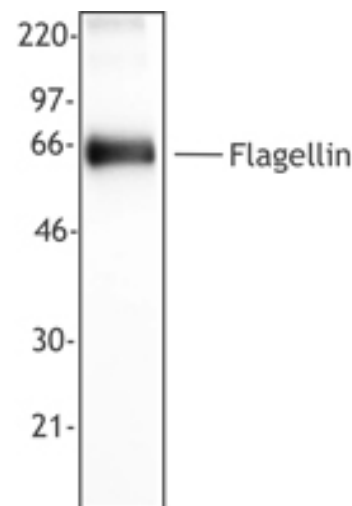
Reactivity: FliC is expressed in motile bacteria including *Salmonella* and *E. Coli*. The epitope recognized by this antibody is not known. There is a possibility that some flagellins are not recognized by this FLIC-1 antibody.

Preparation: The antibody was purified by affinity chromatography.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. Final antibody concentration is 0.5 mg/ml.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



Recombinant flagellin protein (50 ng per lane) was resolved by electrophoresis, transferred to nitrocellulose, and probed with monoclonal antibody against FliC. Protein was visualized using a goat anti-mouse secondary conjugated to HRP and a chemiluminescence detection system.

Applications:

Applications: WB - Quality tested
IF, IP - Reported in the literature

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 5 µg antibody per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

Application References:

1. Uchiya K, *et al.* 2008. *Microbiology*. 154:3491. (IF) PubMed
2. Huang LY, *et al.* 2009. *J. Clin Microbiol.* (IP) PubMed
3. Ibarra JA, *et al.* 2010. *Microbiology*. 156:1120. PubMed
4. Crawford RW, *et al.* 2010. *J. Bacteriol.* 192:2981. (WB) PubMed
5. Knodler LA, *et al.* 2010. *Proc Natl Acad Sci USA*. 107:17733. PubMed
6. Kajikawa, A., *et al.* 2011. *Appl Environ Microbiol.* 77:6587. PubMed.
7. Eom JS, *et al.* 2012. *J. Bacteriol.* 194:4332. PubMed.
8. Nielsen MB, *et al.* 2013. *Food Microbiol.* 33:221. PubMed.

Description: FliC is a protein expressed in many motile enteric bacteria including *Salmonella* and *Escherichia*. The C- and N-terminal regions of the protein among various strains of bacteria are well-conserved. However, there is great variability of length and amino acid sequence in the central region. For example, *E. coli* flagellin have been reported to vary in size from 36 K to 69 K in MW. The epitope recognized by this FLIC-1 monoclonal antibody is not known. FliC is a subunit protein that polymerizes (in conjunction with other proteins) to form the filaments of bacterial flagella in a precise order. Flagellin is a potent ligand of toll-like receptor 5 (TLR5). By binding to TLR5, flagellin induces activation of NF-κB and triggers the production of cytokines and innate immune responses.

Antigen References:

1. Masten BJ and Joys TM. 1993. *J. Bacteriol.* 175:5359.
2. Kuwajima G, *et al.* 1986. *J. Bacteriol.* 168:1479.
3. Evdokimov AG, *et al.* 2003. *Nature Struct. Biol.* 10:789.
4. Reid SE, *et al.* 1999. *J. Bacteriol.* 181:153.
5. Hayashi F, *et al.* 2001. *Nature* 410:1099.
6. Nempont C, *et al.* 2008. *J. Immunol.* 181:2036.

Related Products:

Product
HRP Goat anti-mouse IgG (minimal x-reactivity)

Clone
Poly4053

Application
ELISA, IHC, WB



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