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# Polyclonal Antibody to LNX - Aff - Purified

**Catalog No.:** EB05962

**Quantity:** 0.1 mg

**Concentration:** 1.0 mg/ml

**Background:** CFTR, for cystic fibrosis transmembrane conductance regulator, is a cyclic adenosine monophosphate (cAMP)-regulated chloride channel protein. CFTR belongs to the MDR subfamily within the ATP-binding transport protein family. It has two transmembrane domains (TMDs), two nucleotide binding domains (NBDs) and one regulatory domain. Mutations of CFTR are associated with cystic fibrosis (CF), a disease characterized by chronic bronchopulmonary disease, elevated sweat electrolytes and insufficient pancreatic function.

Cystic Fibrosis (CF) is a common lethal genetic disease caused by mutations of the gene coding for the cystic fibrosis transmembrane conductance factor, a cAMP regulated chloride channel. Approximately 70% of all CF cases share the deletion of a phenylalanine at position 508 (delta F508) which results in abnormal chloride transport.
Since the CF mutation is lethal, most often by lung and liver disease, it raises the question of why this genetic disease remains as common as it is. One possible explanation is that Salmonella typhi has been shown to use CFTR to enter intestinal epithelial cells and that delta F508 heterozygote and homozygote mice showed 86% and 100% reductions in S. typhi intestinal submucosal uptake.

**Host / Isotype:** Goat

**Immunogen:** Synthetic Peptide: G(103) R I I A S Y D P D N K E E R (117) corresponding to amino acid residues 103-117 from human CFTR protein.
SP5358P immunizing peptide (SP5358CP) is available for use in neutralization and control experiments.
**Remarks:** This sequence is completely conserved between human, rabbit, and monkey and there is a one amino acid substitution in rat, bovine, and sheep.

**Format:** **State:** Liquid purified Ig fraction.
**Purification:** Epitope affinity chromatography.
**Buffer System:** PBS containing 0.05% sodium azide as preservative and 1 mg/ml BSA as stabilizer.

**Applications:** Immunocytochemistry (1 □g/ml), staining of HEK293 cells overexpressing human CFTR results in staining primarily of the plasma membrane).
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:** SP5358P detects cystic fibrosis transmembrane conductance factor (CFTR) from cells overexpressing the human protein.

**Species:** Human.
Others not tested.

**Storage:** Store the antibody at -20°C.
Avoid repeated freezing and thawing.
Shelf life: One year from despatch.

**General References:**
1. J. Cell Science, 108: 2433-2444, 1995.
2. Nature, 393: 79-82, 1998.