

# Product Data Sheet

## Purified anti-Cytokeratin 19

**Catalog # / Size:** 628502 / 100 µg  
**Clone:** A53-B/A2  
**Isotype:** Mouse IgG2a, κ  
**Immunogen:** Human mammary carcinoma cell line MCF-7  
**Reactivity:** Human  
**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 at 0.5 mg/ml.  
**Concentration:** 0.5 mg/ml  
**Storage:** The antibody solution should be stored undiluted at 4°C.

## Applications:

**Applications:** WB - *Quality tested*  
 IF - *Validated*  
 IP, ICC, IHC, ELISA - *Reported in the literature*

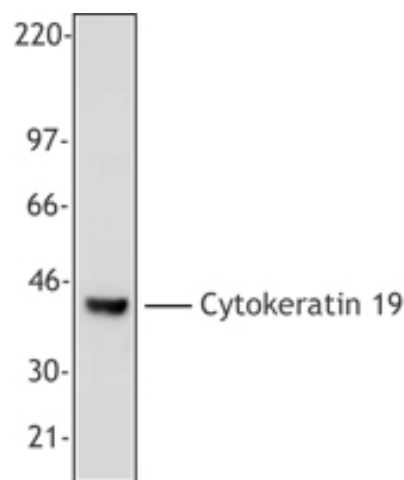
**Recommended Usage:** Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 5 µg antibody per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

**Application References:** 1. Karsten U, *et al.* 1985. *Eur. J. Cancer Clin. Oncol.* 21:733.

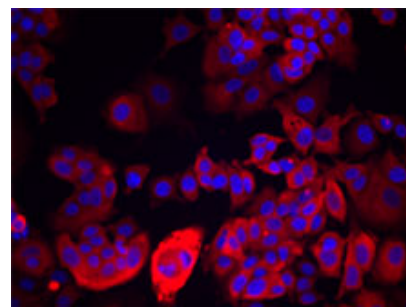
**Description:** Cytokeratin 19, also known as keratin 19, is a type I intermediate filament protein with a molecular weight of approximately 40-44 kD. Cytokeratin 19 is a heterotetramer composed of two type I and two type II keratin subunits. Unlike other cytokeratins, cytokeratin 19 lacks a C-terminal non-helical extension. This cytokeratin is widely expressed in the periderm (transient superficial layer enveloping developing epidermis), muscle, intestine, bile duct, esophagus, stomach, and thymus. Cytokeratin 19 can be upregulated by vitamin A and is thought to play a critical role in embryogenesis. Cytokeratin 19 interacts with the pinin protein and has been shown to be modified by phosphorylation (Ser10, Ser35). The A53-B/A2 monoclonal antibody recognizes human cytokeratin 19 and is useful for Western blotting. This antibody has also been reported to be useful for immunoprecipitation, immunohistochemistry (paraffin sections), immunocytochemistry, and ELISA.

**Antigen References:** 1. Bader BL, *et al.* 1986. *EMBO J.* 5:1865.  
 2. Eckert RL. 1988. *Proc. Natl. Acad. Sci.* 85:1114.  
 3. Stasiak PC and Lane EB. 1987 *Nucleic Acids Res.* 15:10058.

<b>Related Products:</b>	<b>Product</b>	<b>Clone</b>	<b>Application</b>
	HRP Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	ELISA, IHC, WB



MCF-7 cell extract was resolved by electrophoresis, transferred to nitrocellulose and probed with monoclonal anti-cytokeratin 19 antibody (clone A53-B/A2). Proteins were visualized using a goat anti-mouse secondary conjugated to HRP and a chemiluminescence detection system.



MCF-7 cells were stained with anti-Cytokeratin 19 (clone A53-B/A2), followed by Alexa Fluor® 546 secondary antibody and DAPI (nuclei). Images were acquired on a Nikon FC300 inverted microscope at 20X magnification. Data provided by Dr. John Nolan, La Jolla Bioengineering Institute.



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