

## Product datasheet for **BM5527**

### **NUP153 Mouse Monoclonal Antibody [Clone ID: nup7A8]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	nup7A8
Applications:	IF, IHC, IP, WB
Recommended Dilution:	<b>Immunohistochemistry</b> / Immunofluorescence Microscopy <b>on Frozen Sections:</b> 1/5-1/10 (also after fixation with paraformaldehyde). <b>Immunoblotting (Western blot):</b> 1/30-1/50 (ECL method). <b>Immunoprecipitation.</b> <i>Incubation Time:</i> 1h at RT.
Reactivity:	Amphibian, Human, Mouse, Rat, Xenopus
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Nuclear matrix protein fraction prepared from Rat liver nuclei
Specificity:	The antibody recognizes the nuclear pore complex (NPC) protein nup153 (190 kD), present on the inner aspect of NPC with attached filament bundles. It is also reactive with the soluble form of nup153 found e.g. during meiotic metaphase. Epitope in Rat liver was mapped to N-terminal domain (aa439-611; cf. Hase & Cordes, 2003).
Formulation:	State: Supernatant State: Liquid Hybridoma Culture Supernatant Preservative: 0.09% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	nucleoporin 153kDa
Database Link:	<a href="#">Entrez Gene 9972 Human P49790</a>



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**Background:**

Nuclear pore complexes are extremely elaborate structures that mediate the regulated movement of macromolecules between the nucleus and cytoplasm. These complexes are composed of at least 100 different polypeptide subunits, many of which belong to the nucleoporin family. Nucleoporins are pore complex specific glycoproteins characterized by cytoplasmically oriented O linked N acetylglucosamine residues and numerous repeats of the pentapeptide sequence XFXFG. Nup153 has three distinct domains: a N terminal region within which a pore targeting domain has been identified, a central region containing multiple zinc finger motifs, and a C terminal region containing multiple XFXFG repeats. Nup153 is a possible DNA binding subunit of the nuclear pore complex (NPC). The repeat containing domain may be involved in anchoring components of the pore complex to the pore membrane.

**Synonyms:**

Nucleoporin Nup153